

SECTION E, 8th EDITION.

J. STONE & CO.'S

IRONWORK
FOR
DRAINAGE
WORKS.

"FITTINGS for WATER SUPPLY to TOWNS, &c."

See Illustrated Catalogue, Section A.

Works and Offices:

DEPTFORD, LONDON, S.E.

Samples of Catalogue A (Parts 1 & 2), B, C (Parts 1 & 2) and D,
to be obtained upon application.

Printed at Sonners' Hall.

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SEWERAGE IRON WORK: J. Stone & Co., of Deptford. Illustrated cata-
logue of gratings, covers, ventilators, manhole covers, tide flaps, valves,
penstocks, etc. 4to, pp. 97, orig. boards. 1898.

IMPORTANT NOTICE.

J. STONE & CO. beg to state that they have recently instituted legal proceedings against several firms who have infringed the copyright of their illustrated catalogues. They have obtained substantial damages from these firms, and all catalogues containing such infringements have been ordered to be destroyed.

J. STONE & CO. will institute proceedings against all persons infringing their copyrights, manufacturing or selling articles which are infringements of their patent rights or trade marks.

* * * * *

In order to ensure having Goods which are certain to give the greatest possible satisfaction, J. STONE & CO. respectfully suggest that in drawing up Specifications for Drainage Schemes, gentlemen would do well to specify that—

"The Ironwork shall be manufactured by

J. STONE & Co., Deptford, London,"

and at the same time quote the Numbers of the various Articles in their Illustrated Catalogue; otherwise they may be supplied with articles somewhat similar in appearance, made by second-rate firms, and which are of altogether inferior quality.

Registered Telegraph Address:—"STONE, DEPTFORD, LONDON."

Customers' attention is particularly directed to the following:—

MEANING OF CODE WORDS.										TELEGRAPH CODE.
Dispatch immediately per Mail Steamer following	...	...	...	...	...	...	...	...	...	arborvitae
Do. do. do. Ordinary Steamer do.	...	...	...	...	...	...	...	...	...	arbourvine
Do. do. do. Sailing Vessel do.	...	...	...	...	...	...	...	...	...	arbusele
Do. do. following, in addition to previous orders	...	...	...	...	...	...	...	...	...	arbusecular
Prepare following. Shipping instructions to follow	...	...	...	...	...	...	...	...	...	arbustive
Wire shortest time for delivery of following	...	...	...	...	...	...	...	...	...	arbustum
Write by first mail shortest time for delivery of following	...	...	...	...	...	...	...	...	...	arbute
Wire net price of following, including necessary packing, and delivered free on board ship, London or Liverpool	...	...	...	...	...	...	...	...	...	arbutean
Write by first mail your net price of following, including necessary packing, and delivered free on board ship, London or Liverpool	...	...	...	...	...	...	...	...	...	arbatus
Wire when goods on order will be delivered	...	...	...	...	...	...	...	...	...	arcade
We can dispatch goods enquired for immediately	...	...	...	...	...	...	...	...	...	arcanum
Do. do. in 7 days	...	...	...	...	...	...	...	...	...	archaic
Do. do. 2 weeks	...	...	...	...	...	...	...	...	...	archaical
Do. do. 3 "	...	...	...	...	...	...	...	...	...	archaism
Do. do. 4 "	...	...	...	...	...	...	...	...	...	archangel
We can dispatch following goods immediately	...	...	...	...	...	...	...	...	...	archband
Do. do. in 7 days	...	...	...	...	...	...	...	...	...	archbishop
Do. do. 2 weeks	...	...	...	...	...	...	...	...	...	archboard
Do. do. 3 "	...	...	...	...	...	...	...	...	...	archbrick
Do. do. 4 "	...	...	...	...	...	...	...	...	...	archbutler
Goods on order for you have already been dispatched	...	...	...	...	...	...	...	...	...	archcheneic
Goods on order for you will be dispatched immediately	...	...	...	...	...	...	...	...	...	archcount
Do. do. in 7 days	...	...	...	...	...	...	...	...	...	archdeacon
Do. do. 2 weeks	...	...	...	...	...	...	...	...	...	archdruid
Do. do. 3 "	...	...	...	...	...	...	...	...	...	archducal
Do. do. 4 "	...	...	...	...	...	...	...	...	...	archduchy
Your letter not understood, please repeat by next mail	...	...	...	...	...	...	...	...	...	archduke
Your telegram not understood, please repeat	...	...	...	...	...	...	...	...	...	archeal
Wire reply immediately to our last letter	...	...	...	...	...	...	...	...	...	arched
We have no reply to our telegram. Please reply immediately	...	...	...	...	...	...	...	...	...	archegony

Our net price (cash against Bills of Lading) for the goods named in your enquiry, including the necessary packing, and delivered free on board ship in London, Liverpool, or Hull, is:—

£20	£30	£50	£70	£110	£160	£220	£330	£500	£750
archemy	architect	archpastor	archograph	arena	argumental	armament	armillary	armory	arnica
£21	£32	£52	£73	£115	£165	£230	£345	£525	£775
archenemy	architrave	archpillar	ardency	argental	arguseyed	armature	armilate	armour	arnoldist
£22	£34	£54	£76	£120	£170	£240	£360	£550	£800
archeology	archival	archpoet	ardent	argentine	argusshell	armband	arming	armourer	aronia
£23	£36	£56	£80	£125	£175	£250	£375	£575	£850
archeress	archive	archpriest	ardently	argileons	aries	armchair	armedian	armpit	automatic
£24	£38	£58	£84	£130	£180	£260	£390	£600	£900
archerfish	archivist	archrebel	ardentness	argonautic	aristocrat	armed	armipotent	armrack	aromatical
£25	£40	£60	£88	£135	£185	£270	£400	£625	£950
archetypal	archivolt	archsee	ardour	argosy	arithmetic	armful	armistice	armwend	aromatic
£26	£42	£62	£92	£140	£190	£280	£420	£650	£1000
archetype	archolute	archstone	arduity	arguable	arkshell	armgaunt	armless	armstrength	aromatous
£27	£44	£64	£96	£145	£195	£290	£440	£675	
archiater	archly	archtruant	arduous	arguer	arpenny	armhole	armlet	armreach	
£28	£46	£66	£100	£150	£200	£300	£460	£700	
archierey	archmook	archway	arduously	argufy	armada	armiger	armorial	armcorps	
£29	£48	£68	£105	£155	£210	£315	£480	£725	
archimagus	archness	archwife	areasneak	argnment	armadillo	armigerous	armorist	armylist	

INTRODUCTION TO EIGHTH EDITION.

IN introducing their NEW ILLUSTRATED CATALOGUE of

SEWERAGE IRONWORK,

J. STONE & CO. beg to call attention to the fact that they have had the honour of supplying the whole of the Ironwork required for very many of the LARGEST AND MOST IMPORTANT DRAINAGE WORKS in the United Kingdom and elsewhere. Their work has been very highly approved of by THE MOST EMINENT ENGINEERS OF THE DAY, and the articles of their manufacture have been in use in all parts of the World for UPWARDS OF FIFTY YEARS PAST, and have everywhere given the greatest possible satisfaction.

Having now completed the erection of an entirely new and very extensive Factory, fitted throughout with the Most Modern Tools and Appliances, **J. STONE & CO.** are in a position to execute any order, however large, with the greatest promptitude, and at the lowest possible rates.

In order to ensure having Ironwork which is certain to give the greatest possible satisfaction, **J. STONE & CO.** respectfully suggest that in drawing up Specifications for Drainage Schemes, gentlemen would do well to specify that—

"The Ironwork shall be manufactured by J. STONE & CO., Deptford, London,"

and at the same time quote the Numbers of the various Articles in their Illustrated Catalogue, otherwise they may be supplied with articles somewhat similar in appearance, made by second-rate firms, and which are of altogether inferior quality.

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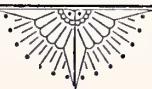
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TERMS.

The Prices in this Catalogue include delivery in **London**, and are subject to alteration, without notice, in the event of any particular rise or fall in the value of materials or labour.

A discount of $2\frac{1}{2}$ per cent. will be allowed for *Cash* if paid within one month from the date of Invoice.

No Discount whatever will be allowed off **overdue** accounts, which, if not paid within three months, or upon application, will be charged with interest at the rate of 10 per cent. per annum.

All previous Lists of Prices of the articles illustrated herein are hereby cancelled.

The Engravings are subject to modifications, and in some cases the different sizes of the articles vary in form and detail.

All orders will be executed as promptly as possible, but J. STONE & Co. will not be held responsible for delay owing to strikes, accidents, or other unforeseen causes.

No goods will be allowed for as returned, unless a credit note be produced if required.

The greatest care is used in the packing of goods, but J. STONE & Co. will not be held responsible for any breakage in transit.

Two-thirds allowed for empty packages received back, carriage paid, in good condition, within 21 days.

Each package returned must bear the sender's name, and a letter of advice must be sent, stating when and by what conveyance forwarded, or it will not be allowed for.

Packages not sent out by J. STONE & Co. cannot be allowed for.

No goods received back without previous arrangement.

No claims allowed unless made on receipt of goods.

To prevent delay, first order should be accompanied by remittance; and in order to facilitate future business, references should be given to well-known houses in the United Kingdom (London houses preferred).

Remittances should be made payable to J. STONE & Co., and cheques crossed "London and Westminster Bank."

J. STONE & CO.'S NEW PATENT
INSTANTANEOUS ACTION
"Field" Self-Acting Flushing Syphon

(THE BEST AND CHEAPEST IN EXISTENCE),

*For automatically Flushing Town Sewers and
House Drains at stated intervals,*

WITH

LATEST IMPROVED TAPER DISCHARGE LEG HAVING
CORRUGATED LIP,

Ensuring CERTAINTY OF ACTION WITH DROP BY DROP SUPPLY, and greatly
INCREASED VELOCITY OF DISCHARGE, without requiring any
internal or external auxiliary Air Pipe.



MANY THOUSANDS SUPPLIED TO THE
Principal Government Departments, Local Boards of
Health, Sanitary Engineers, &c., &c., and
everywhere giving the greatest possible satisfaction.

No. 9,201. J. STONE & CO.'S NEW PATENT

INSTANTANEOUS ACTION

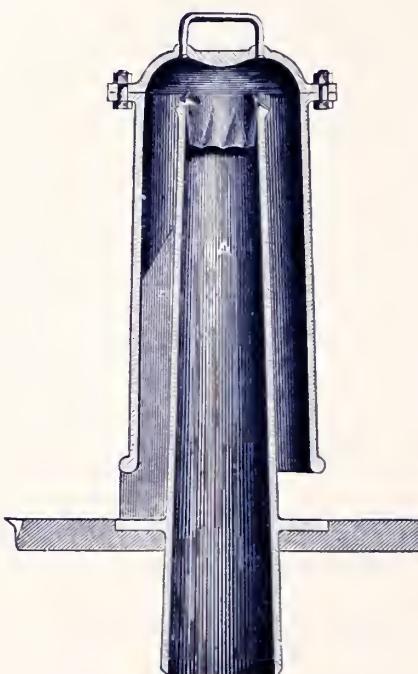
"FIELD" SELF-ACTING FLUSHING SYPHON,

WITH LATEST IMPROVED

DISCHARGE LEG

HAVING

CORRUGATED LIP.



No. 9,201.

ENSURING
CERTAINTY OF ACTION
WITH
DROP BY DROP SUPPLY
EVEN WHEN FIXED
OUT OF VERTICAL POSITION;
AND GREATLY
INCREASED VELOCITY
OF
DISCHARGE.

Ready for Building into Brick or Concrete Flushing Chamber, as shown on next page.

The above, in addition to containing all the advantages of FIELD's old pattern Syphons, as hitherto made by J. STONE & Co., and which obtained the **Gold Medal** at the International Health Exhibition, London, 1884, has been specially designed to overcome the objections which were found still to exist in same on account of failures in action when not absolutely vertical, owing to carelessness in fixing, or to subsidence of masonry, brickwork, or other foundation, besides which, owing to the taper form of discharge leg and peculiar shape of lip, which does not materially obstruct the waterway as in old pattern, it will now discharge the contents of Flushing Chamber with much greater velocity, and the action is rendered absolutely certain even with a drop by drop supply, whilst no auxiliary small syphons or air pipes in trapping box or elsewhere (almost certain after a while to choke) are required as in other Automatic Syphons, though omitted to be shown in illustrations of same.

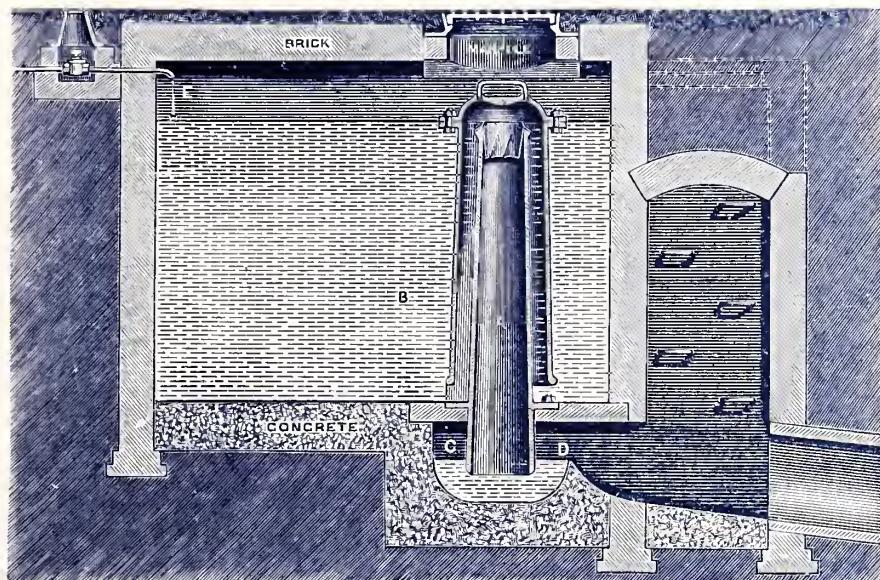
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No. 9,201. J. STONE & CO.'S NEW PATENT

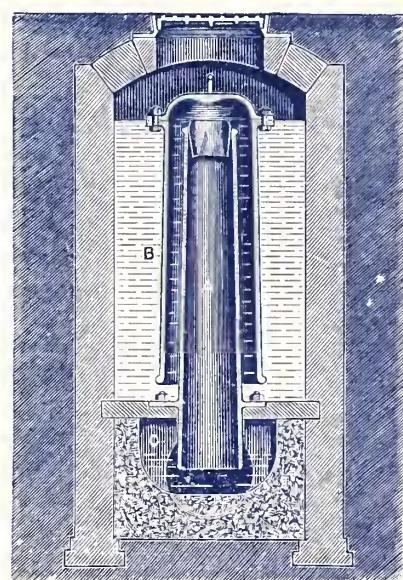
INSTANTANEOUS ACTION

"FIELD" SELF-ACTING FLUSHING SYPHON,

AS FITTED IN FLUSHING CHAMBER READY FOR USE.



SECTION.



CROSS-SECTION.

DESCRIPTION OF ACTION.

The Siphon is built into a tank. The longer limb of Siphon dips about $\frac{1}{2}$ -inch into water below the tank, which is kept at the proper level by a weir, which is made in cement, as shown above.

The action is as follows:—When the water (fed by a constant flow from a small inlet or tap) rises to the top of the longer limb of the Siphon, by means of the patent lip of peculiar form, instead of running down the sides, as in other Flushing Siphons, which require an auxiliary small Siphon or Air Pipe to make them start, it is caused to accumulate above the top of discharge leg until it reaches a certain point, when it starts off with a rush, and the corrugation in lip divides the water into several streams, which displace a large quantity of air in discharge leg, thereby starting the Siphon, which empties the tank with enormous rapidity.

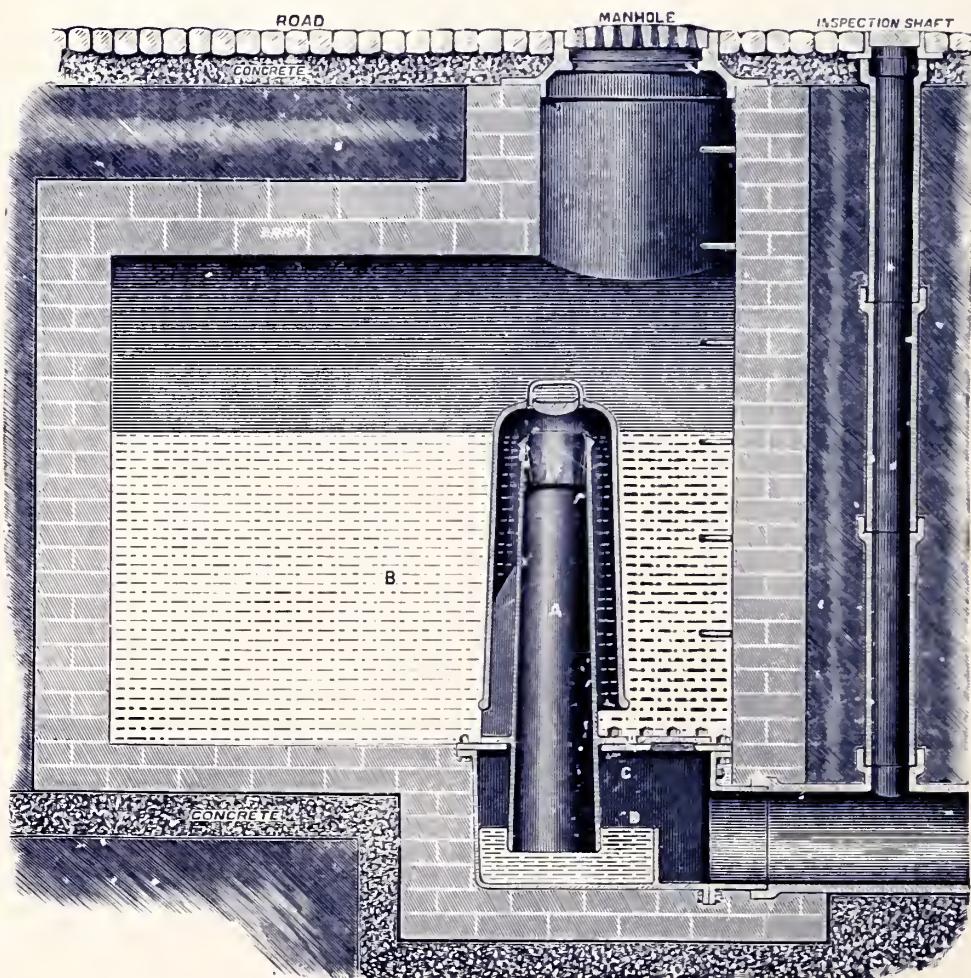
This Flushing Siphon has exceptional advantages where very flat sewers are unavoidable, a Self-acting Chamber being placed wherever a slight fall is obtainable, and in the act of discharging from this first Chamber forces the sewage in a bulk along the flat portion into a second, and so on. It can also be used for irrigation, as the sewage itself can be allowed to collect in tanks and be discharged at stated intervals on the land by means of carriers.

No. 9,202. J. STONE & CO.'S NEW PATENT

INSTANTANEOUS ACTION

"FIELD" SELF-ACTING FLUSHING SYPHON,

WITH TRAPPING BOX IN CAST IRON, having door for ready access thereto for clearing purposes.



No. 9,202.

For
Automatically
Flushing
Town Sewers
and
House Drains
at
Stated Intervals.

Can be
Readily Fixed
with
Unskilled Labour.

Specially recommended for places where, owing to want of skilled labour, it is not convenient to make Trapping Box in cement, as shown on previous page.

**No. 9,201. J. STONE & CO.'S NEW PATENT
INSTANTANEOUS ACTION**

"FIELD" SELF-ACTING FLUSHING SYPHON,

As illustrated on pages 2 and 3.

READY FOR BUILDING INTO BRICK OR CONCRETE FLUSHING CHAMBER.



PRICE LIST.

Size.	This Syphon will Flush—	Standard Size. Total Length of Discharge Leg.	Mean Diameter of Discharge Leg.	Length below Flange.	PRICE.					
					ft.	in.	ins.	£	s.	d.
A	6-in. Drain	2 11	4 $\frac{1}{2}$	9				2	10	0
B	9-in. „	3 4 $\frac{1}{2}$	6	9	Cypher Code ...	photogeny		3	7	6
C	12-in. „	4 0	7	11	Cypher Code ...	photology		4	16	0
D	15-in. „	4 6	8 $\frac{1}{2}$	12	Cypher Code ...	photometer		7	12	6
E	18-in. „	5 0	10	13	Cypher Code ...	phraseless		9	10	0
F	21-in. „	5 6	12	14	Cypher Code ...	phrenetic		13	0	0
					Cypher Code ...	phrenitis				

If with Trapping Box in Cast Iron, having door for ready access thereto for clearing purposes, as illustrated on opposite page—

	A	B	C	D	E	F	size.
Extra Cypher Code ...	31/6 phrenna	38/6 phrenmate	61/- phrenno	95/- phrenob	136/6 phrenoba	165/- phrenosk	each.

If Syphon greater length than above—

Extra Cypher Code ...	13/6 phrenoda	17/- phrenoe	22/- phrenoh	25/- phrenol	27/- phrenola	37/- phrenolist	per foot or part of a foot.
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DIMENSIONS OF FLUSHING TANKS.

In order to ensure the most efficient working of STONE's New Patent "Field" Self-acting Flushing Syphons the tanks in which they are fitted should, wherever practicable, not be smaller than as stated below:—

Syphon.	Size of Tank, Internal.	Height of Tank to Water Level.	From Bottom of Tank to Invert.	Height to top of Dome of Syphon from Invert.
	ft. in.	ft. in.	ft. in.	ins.
A	3 3 × 2 3	2 2	11 $\frac{1}{2}$	3 5 $\frac{3}{4}$
B	4 6 × 3 1	2 7 $\frac{1}{2}$	11 $\frac{1}{2}$	4 0
C	5 3 × 3 8	3 1	14 $\frac{1}{2}$	4 9
D	6 6 × 4 6	3 6	15 $\frac{1}{2}$	5 4
E	7 6 × 5 6	3 11	19 $\frac{1}{2}$	6 2
F	8 6 × 7 3	4 4	19 $\frac{1}{2}$	6 8

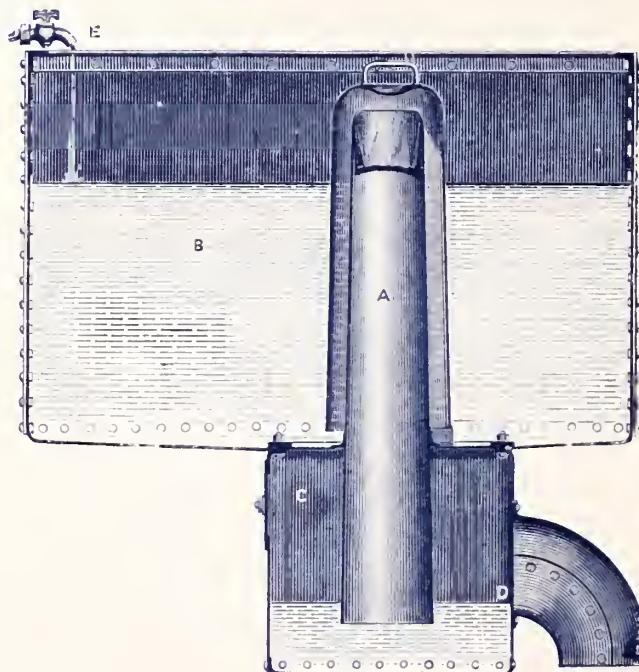
When Syphons are required for Shallow Sewers, the height may be considerably reduced without materially affecting their efficiency. In such cases Special Short Syphons will be supplied without extra charge.

No. 9,203. J. STONE & CO.'S NEW PATENT
INSTANTANEOUS ACTION

"FIELD" SELF-ACTING FLUSHING CISTERNS,

For Automatically Flushing Drains, Water Closets, Urinals, &c., at stated intervals.

With Latest Improved
Taper Syphon
Discharge Leg,
having
Corrugated Lip,
ensuring
Certainty of Action
with
Drop by Drop Supply,
with greatly
Increased Velocity of
Discharge,
without requiring any
Internal or External
auxiliary Air Pipe.



No. 9,203.

Many Thousands
supplied to the
Principal Government
Departments,
Public Buildings,
School Boards,
Barracks,
Factories,
Workhouses,
Railway Stations.

PRICE LIST.

To discharge ... gallons	200	150	100	80	60	50	40	30	20	10	5	2½
<hr/>												
STANDARD DIMENSIONS	ft. ins.	ft. ins.	ft. ins.	ft. ins.	ft. ins.	ft. ins.	ft. ins.	ft. ins.	ft. ins.	ft. ins.	ft. ins.	ft. ins.
Length	3 10	3 6	3 1 ¹ / ₂	2 10	2 6	2 5	2 3	2 6	2 0 ¹ / ₂	1 9	1 6 ¹ / ₄	1 3 ¹ / ₂
Width	2 11	2 7	2 2 ¹ / ₂	2 3	1 11	1 10	1 8	1 6	1 4 ¹ / ₂	1 2 ¹ / ₂	0 11	0 9
Depth	2 11	2 8	2 2 ¹ / ₂	2 0	2 0	1 10	1 8	1 7	1 5 ³ / ₄	1 0 ³ / ₄	0 8 ¹ / ₂	0 6 ⁵ / ₈
<hr/>												
Pri... including Trapping	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.
Box	10 12 6	8 17 6	6 18 6	6 7 6	5 12 9	5 3 9	4 5 6	3 10 9	2 12 6	2 2 6	1 13 0	1 8 0
Cypher Code	phrenology	phrensy	phrygian	phthisic	phthisical	phthisis	phthacter	phylarch	physter	physical	placorous	pineal

CAST IRON BRACKETS FOR SUPPORTING ABOVE.

For ...	2½ and 5	10	20	30, 40 and 50 gallon cistern.
In GALVANIZED ...	s. d.	s. d.	s. d.	s. d.
Cypher Code	2 1	4 11	7 6	11 3 per pair.
In PAINTED ...	pianatier	pianstre	piboun	pinea
Cypher Code	1 7	3 7	5 5	8 2
	pianissimo	prozza	pibouch	pleader

For full Description, etc., see opposite page.

No. 9,203. J. STONE & CO.'S NEW PATENT

INSTANTANEOUS ACTION

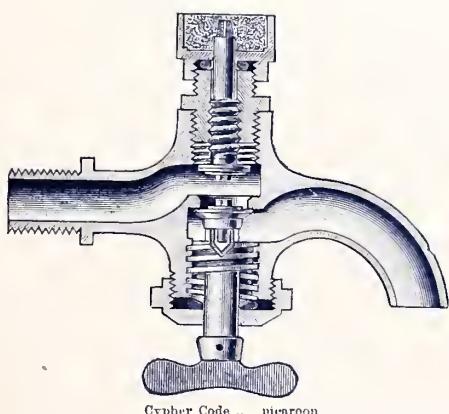
"FIELD" SELF-ACTING FLUSHING CISTERNS.

The above, in addition to containing all the advantages of FIELD's old Pattern Flushing Cisterns, as hitherto made by J. STONE & Co., and which obtained the **Gold Medal** at the International Health Exhibition, London, 1884, has been specially designed to overcome the objections which were found still to exist in same on account of failures in action when not absolutely vertical, owing to carelessness in fixing, or to subsidence of masonry, brickwork, or other support, besides which, owing to the taper form of discharge leg and peculiar shape of lip, which does not materially obstruct the waterway as in old pattern, it will now discharge the contents of Flushing Chamber with much greater velocity, and the action is rendered absolutely certain even with a drop by drop supply, whilst no auxiliary small syphons or air pipes in trapping box or elsewhere (almost certain, after a while, to choke) are required, as in other Automatic Syphons, though omitted to be shown in illustrations of same.

DESCRIPTION OF ACTION.

The Flushing Syphon A is fitted into a galvanized iron tank B. The longer limb of the syphon just dips about $\frac{1}{2}$ of an inch into the water in the lower tank or trapping box at C, which is kept at its proper level by a weir at D.

The action is as follows:—When the water, fed from inlet or tap E, rises to the top of the longer limb of the syphon, by means of the patent lip of peculiar form, instead of running down the sides as in other Flushing Syphons, which require an auxiliary small Syphon or air pipe to make them start, it is caused to accumulate above the top of discharge leg, until it reaches a certain point, when it starts off with a rush, and the corrugations in lip divide the water into several streams, which displaces a large quantity of air in discharge leg, thereby starting the syphon, which empties the tank with enormous rapidity into the drain or other receptacle to be flushed.

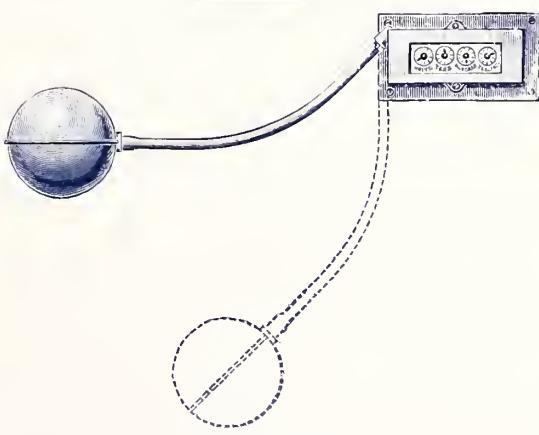


Cypher Code ... picaroon

No. 9,204. J. STONE & CO.'S

DUPLEX REGULATING VALVE.

Arranged so that the upper valve is set and sealed, thus fixing the amount of water passing through it in a given time, whilst the lower valve can be shut off entirely when desired. Price 10s. each.



Cypher Code ... picayune

No. 9,205. J. STONE & CO.'S

AUTOMATIC INDICATOR,

for recording on dial number of times Flushing Cistern is emptied.

PRICES ON APPLICATION.

The following is a list of some of the Towns to which J. STONE & CO. have supplied their Self-acting Flushing Syphons, &c., herein described, and where they can be seen at work, if desired. Many hundreds more might be given, if necessary.

B ABERDEEN	S DUBLIN	S LISKEARD	S RIO DE JANEIRO
B ABERSYCHAN	S DUDLEY	B & S LONDON	S ROATH
S ABERTILLERY	S DULVE	S LONGFORD	S ROSS
S ABINGDON	S DUNDALK	B LOUTH	B & S ST. LEONARDS
S ACHAM	S EASTBOURNE	S LUSTRUM BECK	B ST. PETERSBURG
B ARLESEY	B & S EDINBURGH	B LUTON	S SANDWICH
B ASHY-DE-LA-ZOUCH	S ERDINGTON	S LYNTON	S SEVENOAKS
B ASHTON-UNDER-LYNE	B EVESHAM	B MAIDENHEAD	B SHEERNESS
S BASFORD	B & S EXETER	B MAIDSTONE	B SHEFFIELD
B BATH	B GAVEL	B MANSFIELD	S SHREWSBURV
B BATTERSEA	B GLASGOW	B MARGATE	S SLEAFORD
B BECKENHAM	S GLOUCESTER	B MARKET BOSWORTH	B SINGAPORE
B BIRMINGHAM	B GODALMING	B MAVBRIDGE	S SOLIHULL
B BLACKHEATH	B GREET	S MEOLE	B & S SOUTHAMPTON
B BODMIN	B GUILDEN-SUTTON	S MERIONETH	S STOCKTON-ON-TEES
S BRASTED	S HALBERGERHUTTE	S MIDDLESBOROUGH-	B STONEHOUSE
B BRIDGWATER	B HAMPTON-WICK	ON-TEES	B STOURBRIDGE
B BRIGG	B HANWELL	S MUTLEY	S SUNDERLAND
B BRIGHTON	B & S HASTINGS	S NARBOROUGH	B SWANSEA
B BRISTOL	B HAVERFORDWEST	B & S NEATH	B SWINDON
B BROMBOROUGH	B HAYLE	S NETHER SOOTHILL	B SYDNEV
B BURY ST. EDMUNDS	B & S HENLEY-ON-THAMES	B NEWBURY	B TEIGNMOUTH
B CADOXTON	B HEREFORD	B NEW CROSS	B TORQUAY
S CAMPINAS	S HINCKLEY	B & S NEWPORT, MON.	S WALLASEY
B & S CARDIFF	S HOLBETON	S NEW SWINDON	S WALLINGFORD
B CARNARYON	B HUNTINGDON	B NORTHAM	B WALSALL
S CHEADLE	S HULL	B ORPINGTON	S WALTHAMSTOW
B CHESTER	B HYTHE	B PADDINGTON	B WATERFORD
S CLAYBURY	B ILFRACOMBE	B PENRITH	S WESTERHAM
B CRICCIETH	S IPSWICH	S PENZANCE	B WEYMOUTH
S CROYDON	S IVYBRIDGE	B & S PLYMOUTH	S WINDSOR
S CROXDALE	B JOHNSTOWN	S PLYMTON	B & S WOLVERHAMPTON
B DEVONPORT	S KETTERING	B POOLE	B WOOLWICH
S DONCASTER	B KIRKINTILLOCH	B PUTNEV	B & S WORTHING
B DOVER	B LEAMINGTON	B READING	
B DOWLAIS	B LITTLEHAMPTON	B RENFREW	

(b) For Buildings.

(s) For Town Sewers.

PATENTEES AND SOLE MANUFACTURERS:**J. STONE & CO., Deptford, London, S.E.**

S U M M A R Y.

BAILEY-DENTON IMPROVED FLUSHING PENSTOCK.

FLUSHING VALVES AND PENSTOCKS.

STONE'S IMPROVED "OVAL PATTERN" AND
"METROPOLITAN" SLUICE VALVES.

STONE'S IMPROVED RESERVOIR VALVES.

DRAIN CLEANSING APPARATUS.

STONE'S "AUTOMATIC" FLOATING SEWAGE OUTLET.

TIDE FLAPS. STONE'S PATENT AND LATHAM
PATENT CHARCOAL VENTILATORS.

STONE'S LATEST IMPROVED PATENT "REVERSIBLE"
AND "INTERCHANGEABLE" MANHOLE
AND LAMPHOLE COVERS.

CREGEEN PATENT AIR INLET.

STONE'S IMPROVED KERB AIR INLET.

STONE'S IMPROVED COMBINED SEWER VENTILATING
AND LAMP COLUMNS.

STONE'S IMPROVED SEWER VENTILATING COLUMNS.

STONE'S IMPROVED "AIR-TIGHT" COVER AND FRAME.

STONE'S NEW PATENT "LOUVRE" OPENING
SIDE ENTRANCE COVER.

STONE'S NEW PATENT "DIAGONAL" GULLY GRATE.

"H. & E." PATENT GULLY GRATE.

"OWER" PATENT SEWER GAS TRAP.

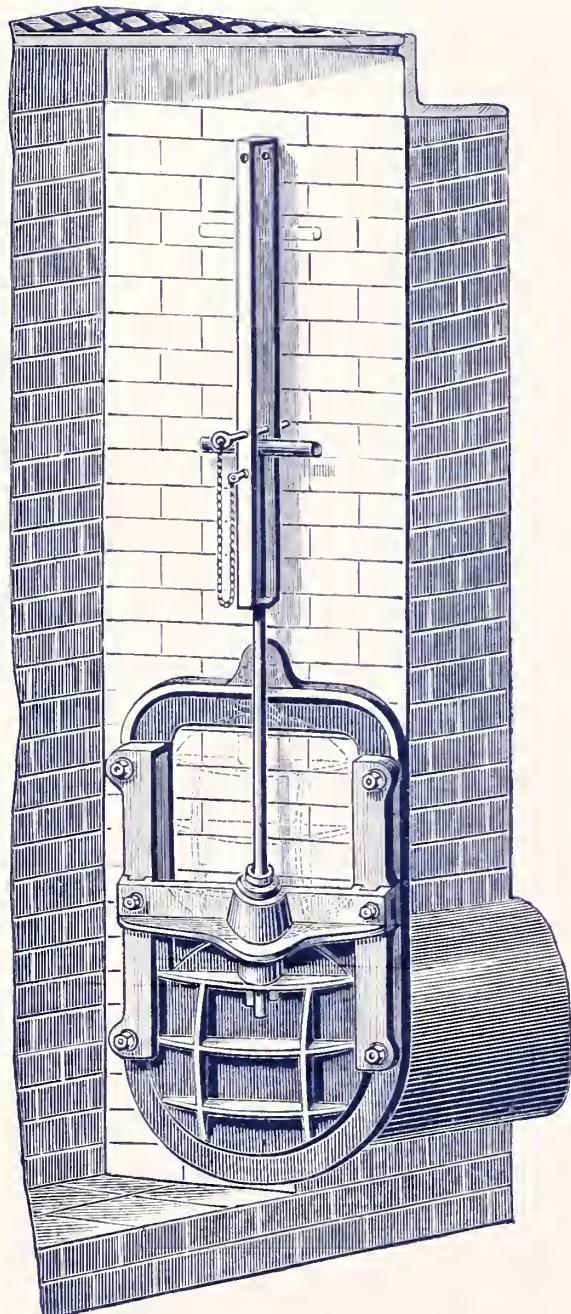
FLUSHING BOXES,
LADDERS, GRATINGS, FOOT IRONS, &c.

STONE'S IMPROVED PUMPS.

No. 9,206.—BAILEY-DENTON

IMPROVED FLUSHING PENSTOCK.

Worked by worm and short rack arrangement; combining the TIGHTNESS of an ordinary Penstock with the INSTANTANEOUS OPENING of an ordinary Flushing Valve.



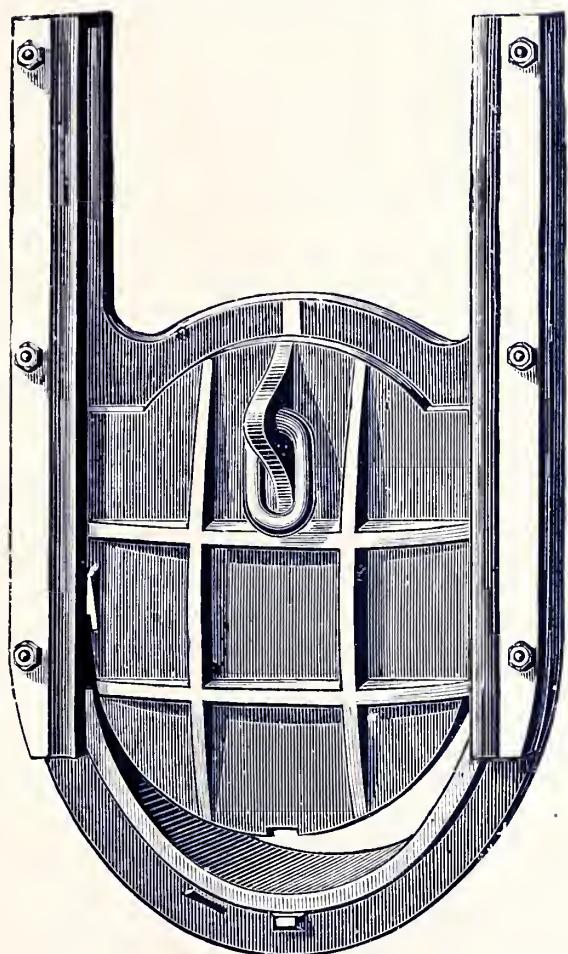
This Penstock is kept watertight in the same way as an ordinary Penstock. It is opened by giving two or three turns to the spindle with the open guide, when the worm will clear the rack in cross-head, and it can then be lifted instantaneously to any required height, and fastened in any position by the pin under cross-piece of spindle.

SIZES USUALLY KEPT IN STOCK.

9 inches diameter in clear...				£ s. d.
				Cypher Code... picket
12	"	"	"	2 10 0
15	"	"	"	3 3 6
18	"	"	"	3 16 3
21	"	"	"	4 6 9
				Cypher Code... picker
				On application.
				Cypher Code... picketed

CAN BE SUPPLIED OF ANY REQUIRED SIZE.

No. 9,207—BAILEY-DENTON IMPROVED FLUSHING PENSTOCK.



No. 9,207.

Worked by means of a chain; combining the tightness of an ordinary Penstock with the instantaneous opening of an ordinary Flushing Valve.

SIZES USUALLY KEPT IN STOCK.

		£	s.	d.
6 inches diameter in clear ...	... ...	0	11	6
	Cypher Code ..			picket
9 "	" "	0	17	9
	Cypher Code ..			picketguard
12 "	" "	1	6	9
	Cypher Code ..			picketing
15 "	" "	1	16	0
	Cypher Code ..			picking
18 "	" "	2	7	0
	Cypher Code ..			pickling
21 "	" "	2	18	6
	Cypher Code ..			picklock
24 "	" "	4	9	3
	Cypher Code ..			pickocket
30 by 20 inch egg-shape	... ...	5	6	6
	Cypher Code ..			pickpurse

Can be supplied of any required size.

Nos. 9,208 & 9,209.

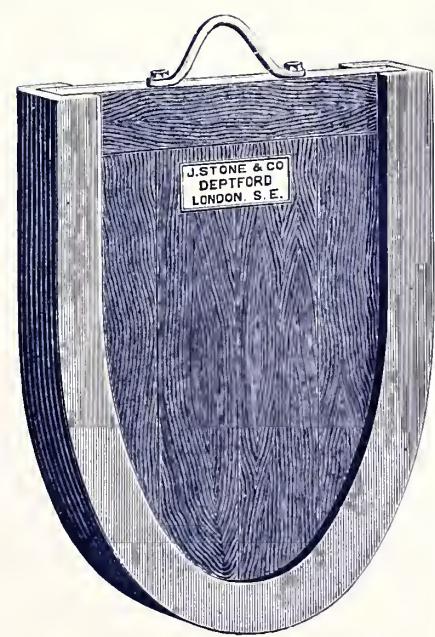
J. STONE & CO.'S IMPROVED HAND FLUSHING VALVES,

With Iron Frames and
Wood Doors.

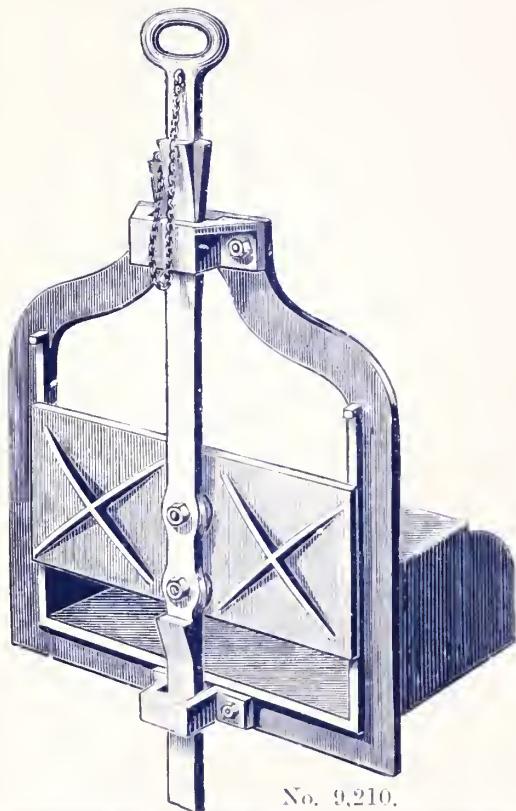


No. 9,208.

Width in Clear.	No. 9,208	No. 9,209
9-in.	16/9	11/6
	Cypher Code ..	picket
12 "	24/-	15/-
	Cypher Code ..	pictorial
15 "	29/6	19/3
	Cypher Code ..	picture
18 "	43/6	29/9
	Cypher Code ..	picturesque



No. 9,209.



No. 9,210.

No. 9,210—BAILEY-DENTON
IMPROVED RECTANGULAR
FLUSHING VALVE OR PENSTOCK.

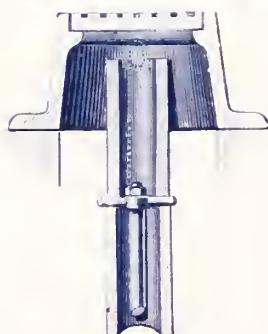
With adjustable wedge arrangement, so as to enable the valve to be immediately fixed in any required position. This valve is also very useful for irrigating purposes on sewage farms.

SIZES USUALLY KEPT IN STOCK.

Length.	Height.	£	s.	d.
14½ inches ...	6 inches in clear	...	1	10 3
20 „ „ „	6 „ „	...	2	11 9

Cypher Code pieceless
Cypher Code, piecemeal

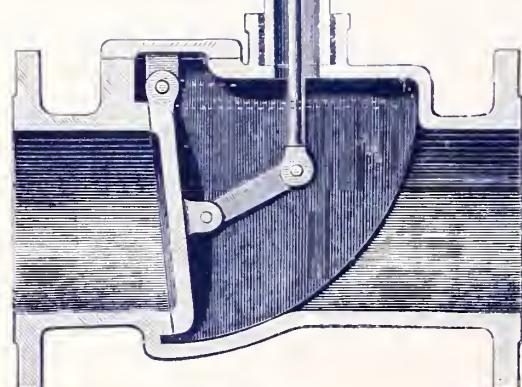
Can be supplied of any required size.



No. 9,211—J. STONE & CO.'S
IMPROVED
FLUSHING VALVE.

With arrangement for opening and closing quickly.

The above arrangement is in use at various sea-ports where the sewer is flushed from the sea, and is equally applicable in a long length of pipe sewer. The valve is opened by pulling up the handle, or rod, and closed quite tightly by simply dropping it.

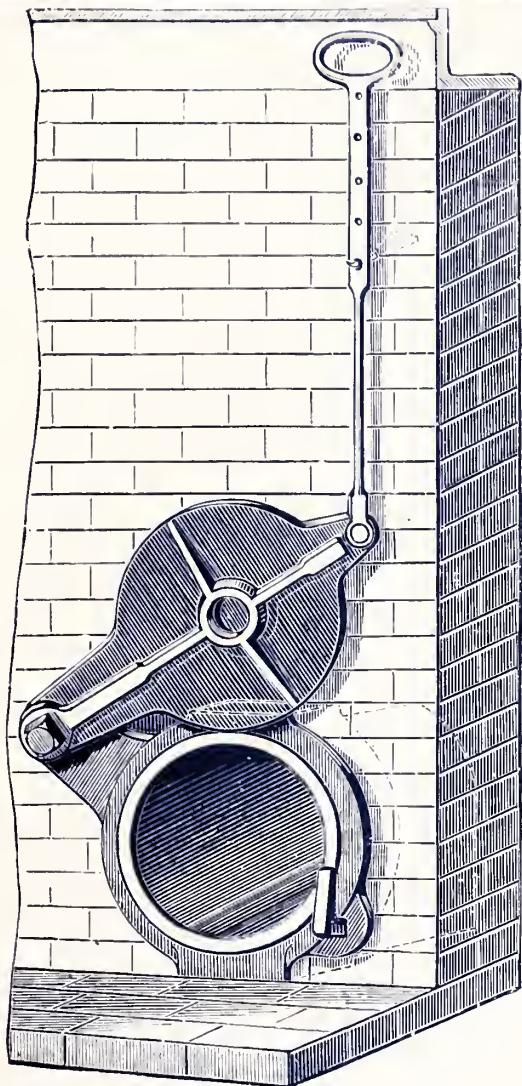


No. 9,211.

Diameter of flanges ...	6	9	12-ins. diam.
Length face to face ...	11	15	18½-ins.
	14½	18½	22½-ins.
With leather face on valve and flanged ends, as illustrated	64/9	97/9	133/
	Cypher Code	piece	pieceing
With two gun-metal faces (1 on valve and 1 on body, and hinge bushed with gun-metal ...)	71/9	106 9	145/-
	Cypher Code	pied	pieceable
If ends of above fitted with flanged spigot and socket bolted to valve complete, for connecting to socket pipes extra	18/4	33 3	50 6
	Cypher Code	piedness	piercer
			pierglassy

The above prices include Guide 4 feet long, but are exclusive of Surface Box.

Can be supplied of any required size.



No. 9,212.

No. 9,212.—J. STONE & CO.'S
IMPROVED
“DISC” FLUSHING VALVE.

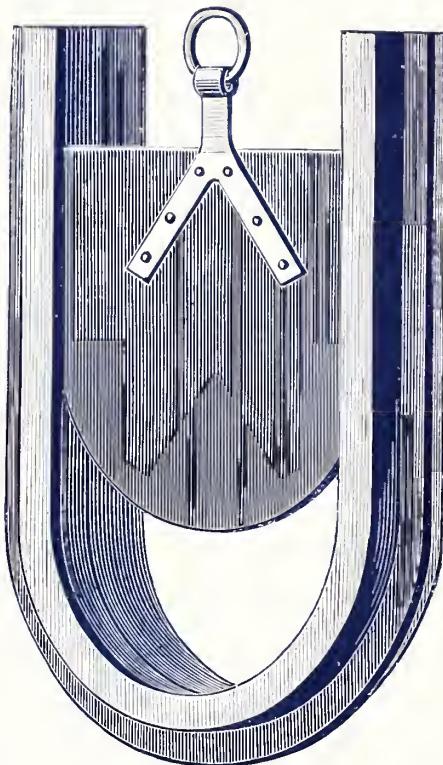
Fitted with SPECIAL “LOCK-NUT” so that the joint pins cannot work loose, also with wedge for keeping same water-tight, and with adjustable handle for regulating amount of opening.

Handle left for welding unless otherwise ordered.

With Socket for Stoneware Pipe.												(Inches diam. in clear.)	
4	5	6	7	8	9	10	12	15	18	20	24	30	
13/6	13/9	14/-	17	6	18	9	24/-	25	9	30	6	40	9 58 3 85 3 109 3 163 6 each
pierian	pietist	piety	piggy	pigheaded	pigment	pigmy							
piertable	pietistic	pigeyed	piggin	pigmean	pigmental								

EXTRAS.

- If with gun-metal faces Prices
- If with flange at back for bolting to pipe Cypher Code pignoration on
- If with spigot for leading into socket pipe Cypher Code pignut application
- If with spigot for leading into socket pipe Cypher Code piked



No. 9,213.

No. 9,213.—J. STONE & CO.'S

IMPROVED

“HAND” FLUSHING VALVE.

With galvanized wrought iron door, sliding up and down in cast iron frame, to be opened by means of a chain.

9	12	15	18-in.	Width 24 inches deep in clear and 9 inches wide.
22/6	29/6	35/6	55/9	23/9 each.

pikeman pilaster pilastered pilchard pileate

Ditto, with *square* invert instead of rounding.

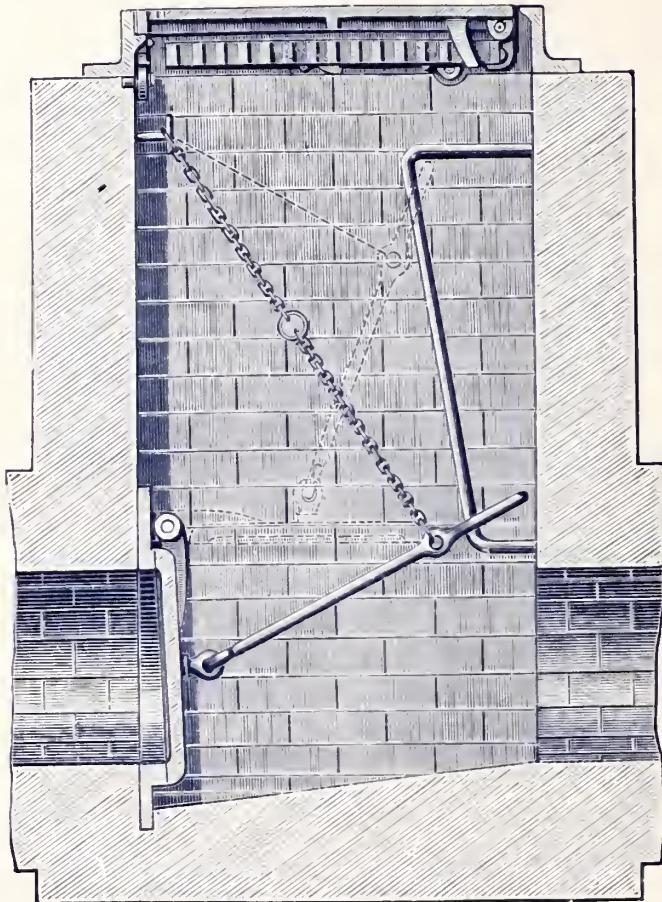
18-in. × 12-in., 12-in. × 12-in., 6-in. × 6-in.
plicated piledrivery piler

PRICES ON APPLICATION.

No. 9,214.—J. STONE & CO.'S
IMPROVED FLUSHING VALVE,

With arrangement of cam rods for opening and closing same.

Chain is supplied to length required, according to depth of flushing chamber.

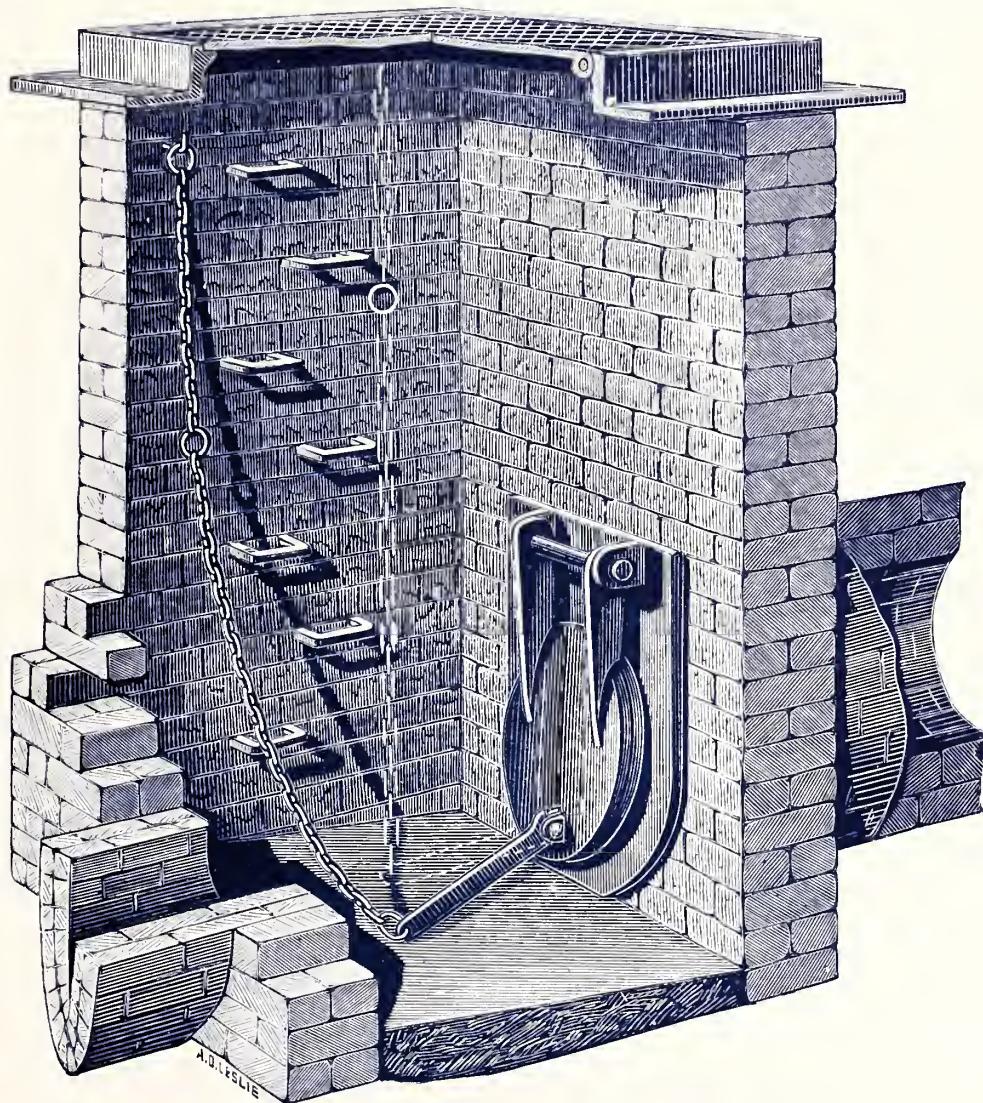


No. 9,214.

SIZE.	As illustrated, but <i>exclusive</i> of Chain, Rings, and Hooks.						Galvanized Iron Chain, with Rings and Hooks.		
	Painted.			Galvanized.					
	£	s.	d.	£	s.	d.	£	s.	d.
9-in. diameter in clear...									
	Cypher Code			Painted,			Galvanized,		
		1	3	0	1	8	0	0	0
				pilfer			pilfered		pilfer
12 "	"	"	"	1	8	6	1	16	6
	Cypher Code			pilfering			pilgarlie		pilgimage
15 "	"	"	"	1	17	6	2	9	0
	Cypher Code			pilferous			pilgerous		pillage
18 "	"	"	"	2	9	0	3	6	6
	Cypher Code			pillager			pillared		pillion

Can be supplied of any required size.

No. 9,215.—J. STONE & CO.'S IMPROVED "LEVER" FLUSHING VALVE.



No. 9,215.

This flushing valve is furnished with a lever so jointed that it cannot be raised higher than at right angles with the face of valve, thus giving an increased leverage, and enabling the valve to be opened suddenly and under a considerable head of water; chain is supplied to length required, according to depth of flushing chamber.

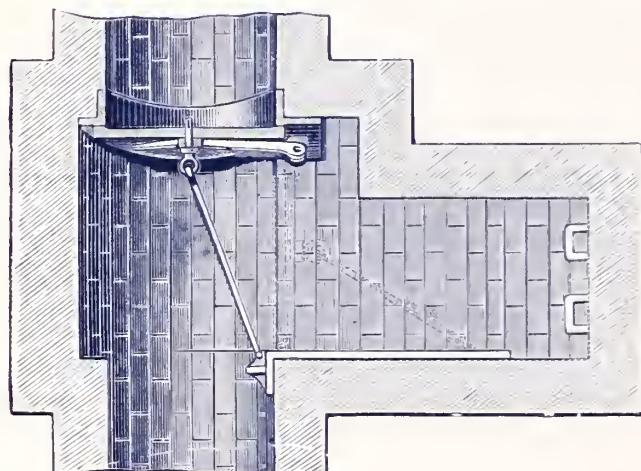
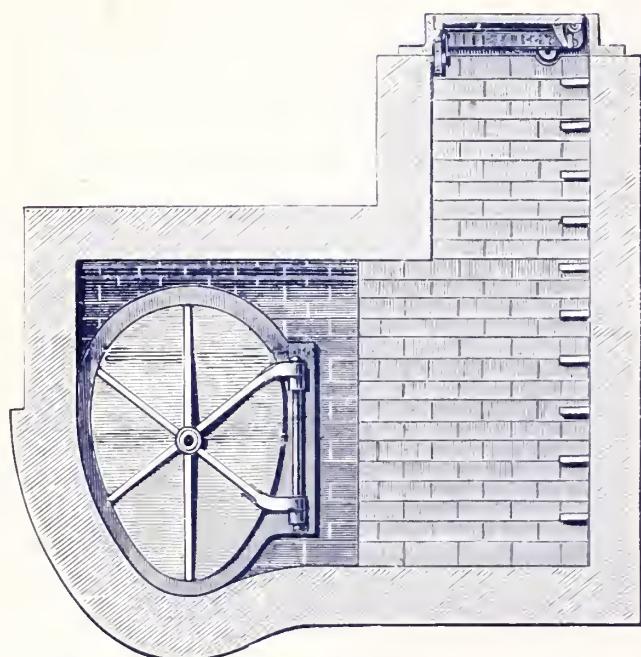
SIZE.	As illustrated, but <i>exclusive</i> of Chain, Rings and Hooks.			Galvanized Iron Chain, with Rings and Hooks.		
	Painted.			Galvanized.		
9-in. diameter in clear . . .	£	s.	d.	£	s.	d.
Cypher Code . . .	0	12	9	0	16	0
12 „ „ „	0	18	0	1	4	0
Cypher Code . . .	0	pillory		1	pillowbier	
15 „ „ „	1	6	9	1	5	9
Cypher Code . . .	1	pillose		1	pilosity	
18 „ „ „	1	16	6	2	piloting	
Cypher Code . . .	1	pilotfish		2	pinchbeck	
24 „ „ „	4	5	9	5	pinewall	
Cypher Code . . .	4	pinardie		4	pining	
24-ins. × 16-ins. „ „	3	5	6	4	14	0
Cypher Code . . .	3	pinery		4	pinionry	

Can be supplied of any required size.

No. 9,216.—J. STONE & CO.'S

WHOLE FLUSHING DOOR,

Showing arrangement for fixing in Sewer.



No. 9,216.

The above can be fitted with self-acting arrangement when required.

The above arrangement represents a **right hand** flushing door. When ordering, please say whether right or left hand required.

For side entrance covers, *see pages 76 to 78.*

For foot-irons, ladders, &c., *see page 89.*

SIZES USUALLY SUPPLIED.

Height.	Width.
2-ft. 6-in. x 1-ft. 8-in. in clear. Cypher Code ...	pinkeyed
3-ft. 0-in. x 2-ft. 0-in. ,,, Cypher Code ...	pinkroot
3-ft. 6-in. x 2-ft. 4-in. ,,, Cypher Code ...	pinnace
4-ft. 0-in. x 3-ft. 0-in. ,,, Cypher Code ...	pinnate
5-ft. 0-in. x 3-ft. 0-in. ,,, Cypher Code ...	pinnated
6-ft. 0-in. x 4-ft. 6-in. ,,, Cypher Code ...	(double doors, with 12-in. disc valve at bottom.)
5-ft. 6-in. x 3-ft. 8-in. ,,, Cypher Code ...	(do.)
4-ft. 0-in. x 2-ft. 8-in. ,,, Cypher Code ...	(do.)
3-ft. 9-in. x 2-ft. 6-in. ,,, Cypher Code ...	(do., with 9-in. do.)

Circular, 2-ft. 6-in. diameter in clear.

Cypher Code ...	pioneer		
"	3-ft. 0-in.	"	"
" Cypher Code ...	piony	"	"
"	4-ft. 0-in.	"	"
" Cypher Code ...	pious	"	"
"	5-ft. 6-in.	"	"
" Cypher Code ...	piously	"	"
"	6-ft. 0-in.	"	"
" Cypher Code ...	piousminded	"	"
"	7-ft. 0-in.	"	"
" Cypher Code ...	piped	"	"
"	7-ft. 6-in.	"	"
" Cypher Code ...	piperidge	"	"
"	8-ft. 0-in.	"	"
" Cypher Code ...	piperine	"	"

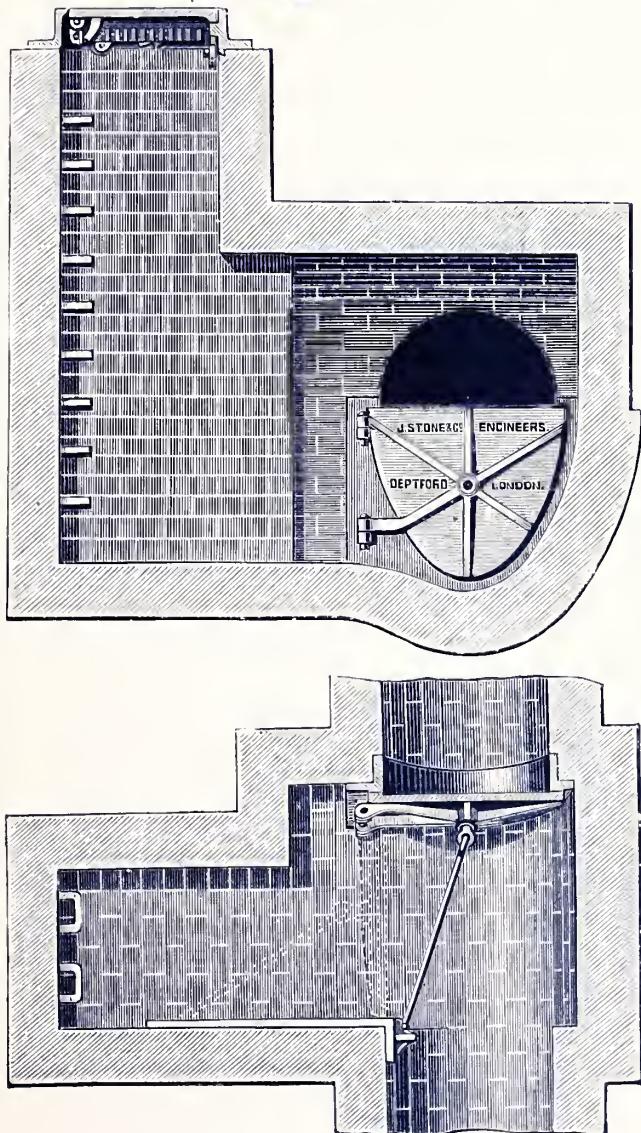
Can be supplied of any required size.

PRICES ON APPLICATION.

No. 9,217.—J. STONE & CO.'S
HALF FLUSHING DOOR,

Showing arrangement for fixing in Sewer.

No. 9,218.—J. STONE & CO.'S
THREE-QUARTER FLUSHING DOOR.



SIZES USUALLY SUPPLIED.

No. 9,217.—HALF-DOOR.

Cypher Code	2-ft. 0-in. diameter in clear.
... pipkin	"
Cypher Code	2-ft. 3-in. " "
... pipkin	"
Cypher Code	3-ft. 0-in. " "
... piquancy	"

No. 9,218.—THREE-QUARTER DOOR.

Cypher Code	3-ft. 0-in. x 2-ft. 0-in. in clear.
... piquant	"
Cypher Code	3-ft. 3-in. x 3-ft. 0-in. "
... piquantly	"
Cypher Code	2-ft. 6-in. x 1-ft. 10-in. "
... pique	"
Cypher Code	2-ft. 0-in. diameter "
... piracy	"
Cypher Code	2-ft. 3-in. " "
... pirate	"

For sewer 6-ft. 0-in. high, 1-ft. 6-ins. wide, with 12-in. disc valve at bottom.

Can be supplied of any required size.

PRICES ON APPLICATION.

The above can be fitted with self acting arrangement when required.

The above arrangement represents a *left hand* flushing door. When ordering, please say whether right or left hand required.

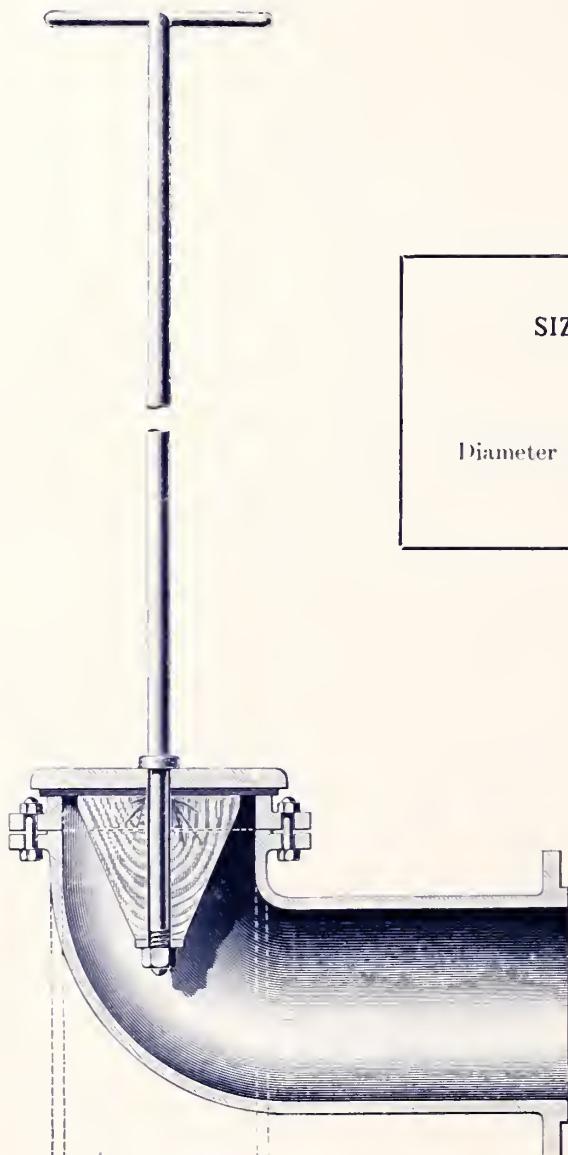
For side entrance covers, see pages 76 to 78.

For foot-irons, ladders, &c., see page 89.

No. 9,219.—J. STONE & CO.'S

IMPROVED SLUDGE OR SCOUR VALVE.

FITTED ON CAST IRON BEND, OR OTHER CONNECTION, AS ORDERED.



No. 9,219.

SIZES USUALLY SUPPLIED.

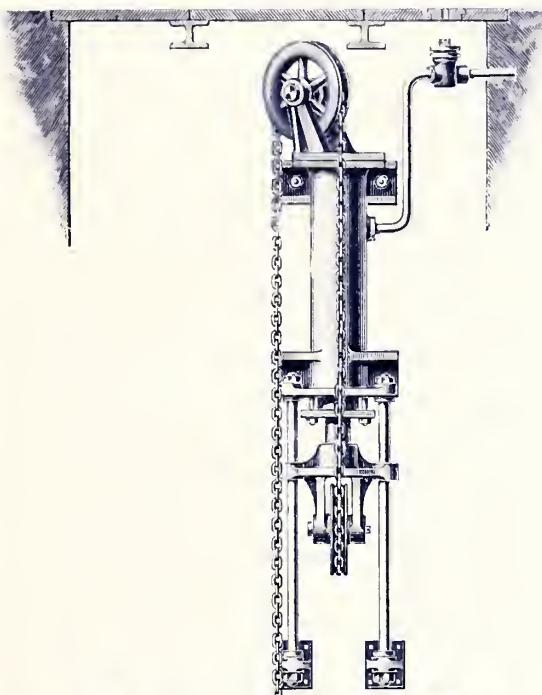
Diameter in clear ...	1-in. Cypher Code piratent	6-in. piratent	8-in. piratent
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PRICES

ON APPLICATION.

For Illustrations and Prices of all descriptions of Valves and Fittings for water supply to Towns and Buildings, see Catalogues, Section A (Parts I. and II.)

PENSTOCKS.

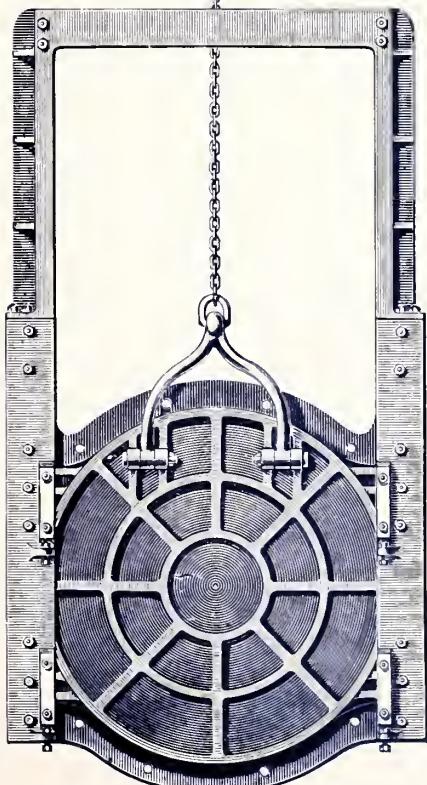


No. 9,220.—J. STONE & CO.'S

LARGE SIZE

PENSTOCKS,

Fitted with improved arrangement
for opening by Hydraulic Power.

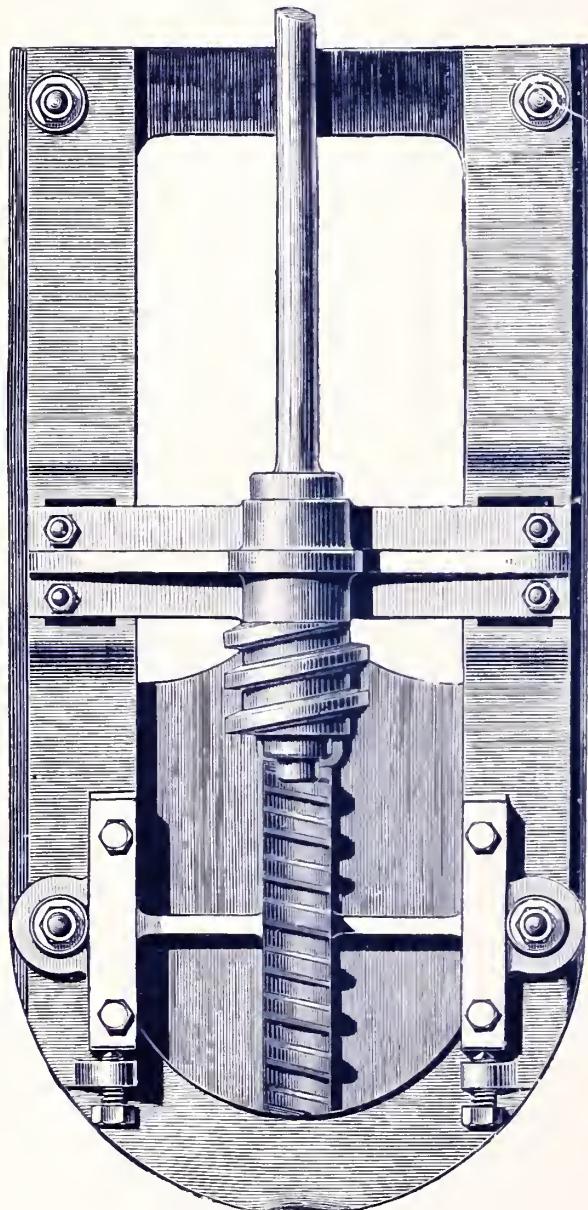


No. 9,220.

Cypher Code ... piratically

FULL PARTICULARS
ON APPLICATION.

No. 9,221.—J. STONE & CO.'S

IMPROVED CIRCULAR PENSTOCK.

No. 9,221.

With framing, guide, and worm and rack arrangement for opening and closing same, *including spindle to 10 feet long* from bottom of invert, the top squared to receive key. Sizes 21 inches diameter and upwards, fitted with adjustable wedges, and worm bearing bushed.

SIZES USUALLY KEPT IN STOCK.

6 inches diameter in clear	... Cypher Code	£ 1 9 6	s. pirating	d.
9 "	" Cypher Code	2 8 0	pirn	
12 "	" Cypher Code	2 19 0	pigroue	
15 "	" Cypher Code	3 5 0	pigouette	
18 "	" Cypher Code	4 14 0	piscary	
21 "	" Cypher Code	6 19 0	piscation	
24 "	" Cypher Code	8 16 3	pise	
27 "	" Cypher Code	10 14 9	pisolate	
30 "	" Cypher Code	13 16 0	pisoltic	
36 "	" Cypher Code	16 3 6	pistilate	

Top boxes (see page 38); sockets for working and fixing bolts are charged extra.

For larger sizes, fitted with *gearing and counterbalance weights*, see succeeding illustrations.

The above can be made with flange at back, for attaching to flanged pipe, if required Cypher Code pistimo

The above can be supplied with **gun-metal faces** if required Cypher Code pitapat

EXTRAS.

If with gun-metal faces	6	9	12	15	18	21	24	27	30	36 ins.	Prices on application.
Cypher Code	6 9	9 6	12/-	15 9	19 6	24 3	36/-				
pitched	pitchfarthing	pitchiness	pitching	pitch-stone	piteous	piteously	pitifully	pitiful	pitifully		

If with faced flange at back for attaching to flanged iron pipe

Cypher Code	7/9	13/3	20/9	24/-	33 6	44/-	66/-				
pitfall	pitily	pitiness	pitless	pitiable	pitiful	pitifully					

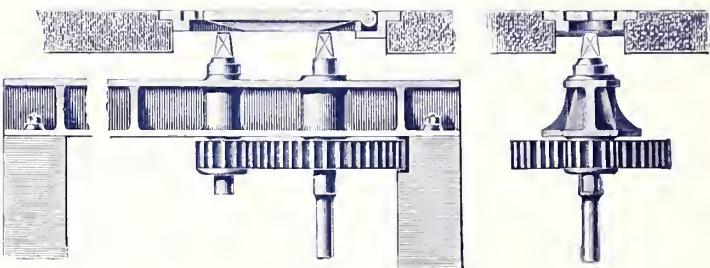
No. 9,222.—J. STONE & CO.'S

IMPROVED EGG-SHAPED PENSTOCK,

With counterbalance weight, and worm and rack arrangement for opening and closing same, including spindle to 10 feet long from bottom of invert, the top squared to receive key; also fitted with adjustable wedges, and worm bearing bushed.



No. 9,222.



No. 9,222a.

SPUR GEARING.

Sometimes fitted instead of counterbalance.

Cypher Code ... pitiless

PRICES ON APPLICATION.**No. 9,222.****SIZES USUALLY SUPPLIED.**

Fitted with counterbalance gear—

2-ft. 6-in. high by 1-ft. 8-in. wide in clear.
Cypher Code ... pitiless
3-ft. 0-in. " " 2-ft. 0-in. " "
Cypher Code ... pitman
3-ft. 3-in. " " 2-ft. 2-in. " "
Cypher Code ... pitaceal
3-ft. 9-in. " " 2-ft. 6-in. " "
Cypher Code ... pitance
4-ft. 0-in. " " 2-ft. 8-in. " "
Cypher Code ... placable
4-ft. 3-in. " " 2-ft. 10-in. " "
Cypher Code ... plachard
4-ft. 6-in. " " 3-ft. 0-in. " "
Cypher Code ... placate
5-ft. 3-in. " " 3-ft. 6-in. " "
Cypher Code ... placebo

Can be supplied of any required size.

PRICES ON APPLICATION.

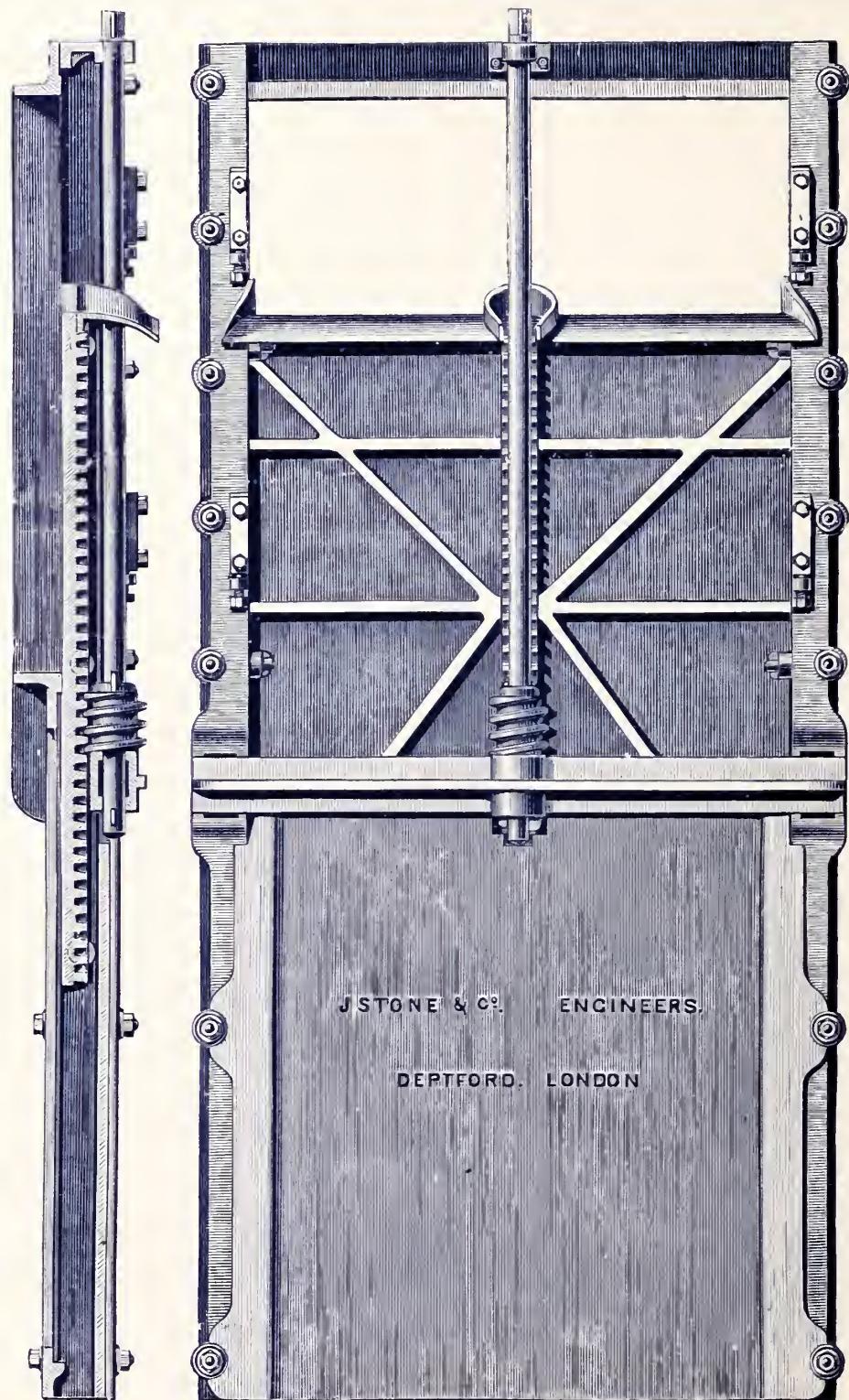
Top boxes (see page 38); sockets for working and fixing bolts are charged extra.

The above can be supplied with gun-metal faces if required.

Cypher Code ... placeman

No. 9,223.—J. STONE & CO.'S
IMPROVED WEIR PENSTOCK,

For Sewage Tanks, to Work Downwards, for drawing off the clear Sewage and leaving the deposit undisturbed ;
 also used as a storm overflow.



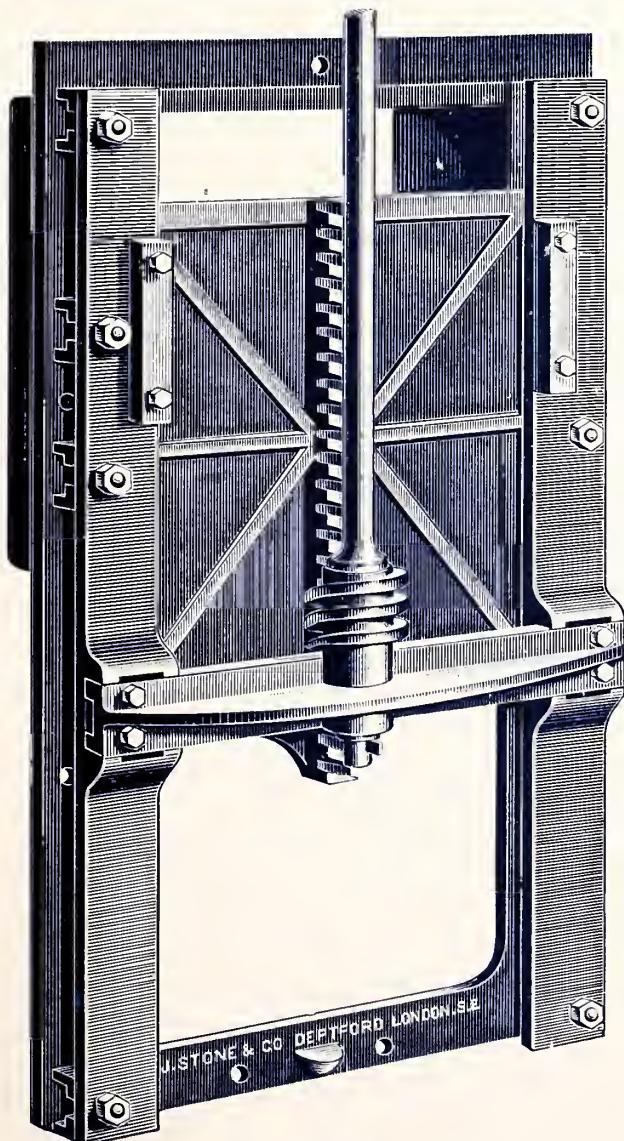
Can be supplied of any required size.

PRICES
ON
APPLICATION.

No. 9,224.—J. STONE & CO.'S

IMPROVED**WEIR PENSTOCK.**

To WORK DOWNWARDS, for drawing off the clear Sewage and leaving the deposit undisturbed; also used as a storm overflow.



No. 9,224.

SIZES USUALLY SUPPLIED.

	Height.	Width.	
Rectangular	4-ft. 6-in. x 3-ft. 0-in. in clear.		
	Cypher Code... placid		
Do.	2-ft. 3-in. x 2-ft. 9-in.	,,	
	Cypher Code... placid		
Do.	1-ft. 6-in. x 2-ft. 6-in.	,,	
	Cypher Code... placidity		
Do.	1-ft. 0-in. x 2-ft. 0-in.	,,	
	Cypher Code... placidness		
Square	3-ft. 0-in. x 3-ft. 0-in.	,,	
	Cypher Code... placidny		
Do.	1-ft. 6-in. x 1-ft. 6-in.	,,	
	Cypher Code... placing		
Do.	1-ft. 0-in. x 1-ft. 0-in.	,,	
	Cypher Code... placid		
Egg Shape	3-ft. 9-in. x 2-ft. 6-in.	,,	
	Cypher Code... plagiarism		
Circular	4-ft. 6-in. diameter in clear.		
	Cypher Code... plagiarist		

Can be supplied of any required size.

The above can be supplied with **Gun-Metal Faces** if required.
Cypher Code... plagiarize

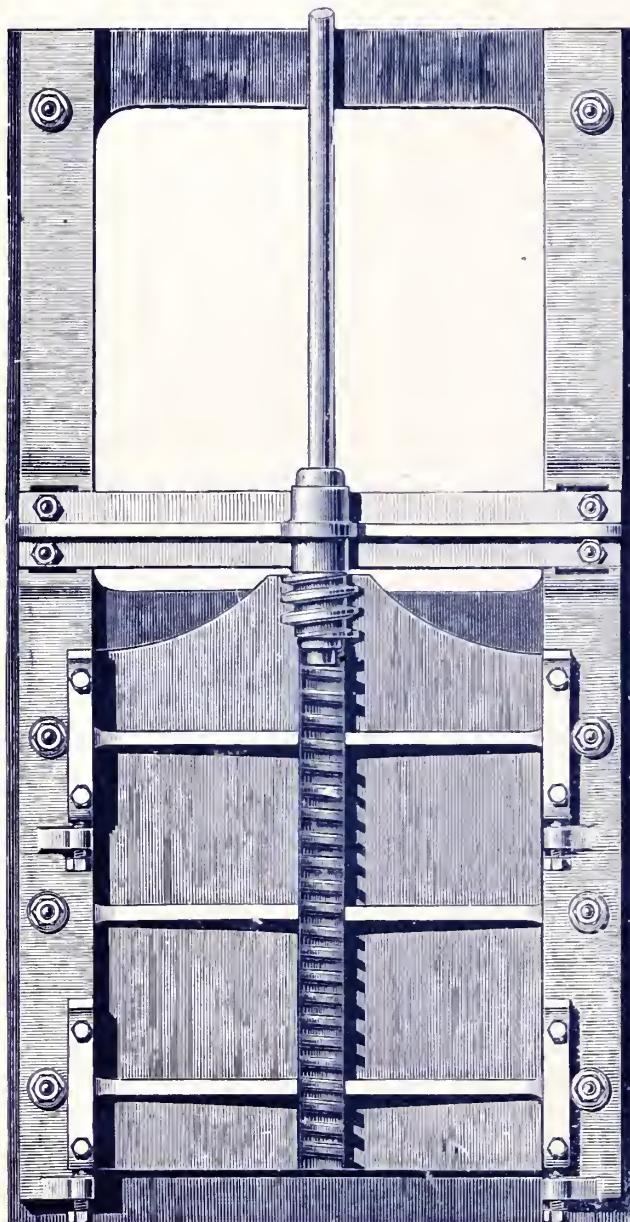
PRICES ON APPLICATION.

No. 9,225.—J. STONE & CO.'S

IMPROVED

SQUARE OR RECTANGULAR PENSTOCK,

With framing, guide, and worm and rack arrangement for opening and closing same.



No. 9,225.

Can be fitted with gearing and counterbalance weights if required.

Cypher Code... planched

SIZES USUALLY SUPPLIED.

Height.	Width.
1-ft. 0-in. × 1-ft. 0-in.	in clear. Cypher Code... plagiary
1-ft. 3-in. × 1-ft. 3-in.	„ Cypher Code... plague
1-ft. 6-in. × 1-ft. 6-in.	„ Cypher Code... plagueful
2-ft. 0-in. × 1-ft. 9-in.	„ Cypher Code... plagiably
2-ft. 0-in. × 2-ft. 0-in.	„ Cypher Code... plaid
2-ft. 0-in. × 3-ft. 0-in.	„ Cypher Code... pladding
2 ft. 0-in. × 3-ft. 6-in.	„ Cypher Code... plaindealing
2-ft. 3-in. × 2-ft. 3-in.	„ Cypher Code... plainheart
2 ft. 6-in. × 2-ft. 0-in.	„ Cypher Code... plainly
2-ft. 6-in. × 2-ft. 8-in.	„ Cypher Code... plainness
3-ft. 0-in. × 2-ft. 0-in.	„ Cypher Code... plainspoken
3-ft. 0-in. × 3-ft. 0-in.	„ Cypher Code... plaint
3-ft. 3-in. × 2-ft. 8-in.	„ Cypher Code... plaintiful
4-ft. 6-in. × 3-ft. 6-in.	„ Cypher Code... plaintifly
5-ft. 0-in. × 4-ft. 0-in.	„ Cypher Code... plait
6-ft. 0-in. × 3-ft. 4-in.	„ Cypher Code... plaster

Can be supplied of any required size.

The above can be supplied with **Gun-Metal Faces**
if required.

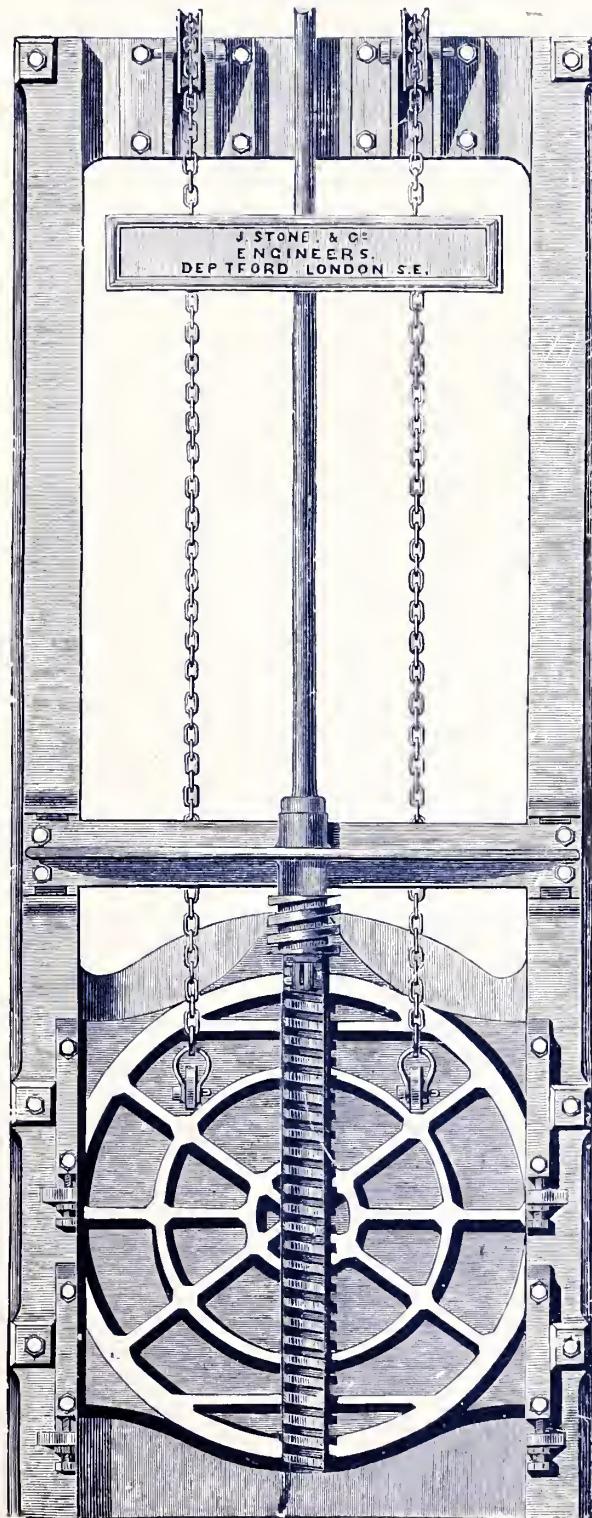
Cypher Code... planch

PRICES ON APPLICATION.

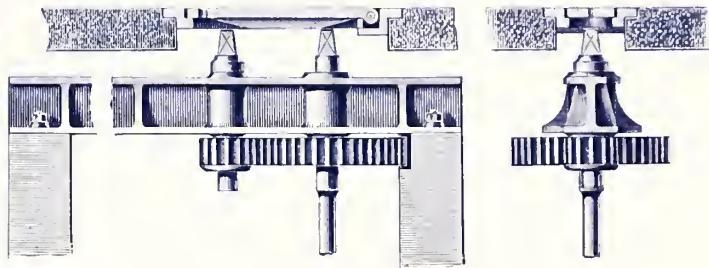
No. 9,226.—J. STONE & CO.'S

IMPROVED LARGE SIZE CIRCULAR PENSTOCK,

Fitted with counterbalance weight, and worm and rack arrangement for opening and closing same.



No. 9,226.



No. 9,226a.

SPUR GEARING.

Sometimes fitted instead of Counterbalance Gear.

Cypher Code ... planet et

PRICES ON APPLICATION.**NO. 9,226.****SIZES USUALLY SUPPLIED.**

(Fitted with Counterbalance Gear.)

		£	s.	d.
3-ft. 6-in. diameter in clear	... ...	31	2	6
	Cypher Code ...			planching
4-ft. 0-in. ,,, ,,,	... ...	45	7	6
	Cypher Code ...			planet
4-ft. 6-in. ,,, ,,,	... ...	53	0	0
	Cypher Code ...			planetarium
5-ft. 6-in. ,,, ,,,	... ...	Prices on		
5-ft. 9-in. ,,, ,,,	... ...			application
	Cypher Code ...			planeted

Can be supplied of any required size.

The above can be supplied with gun-metal faces if required.

Cypher Code ... planetoid

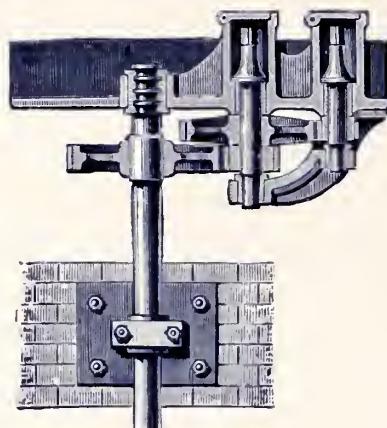
Can be supplied to work downwards if required.

Cypher Code ... planetope

PRICES ON APPLICATION.

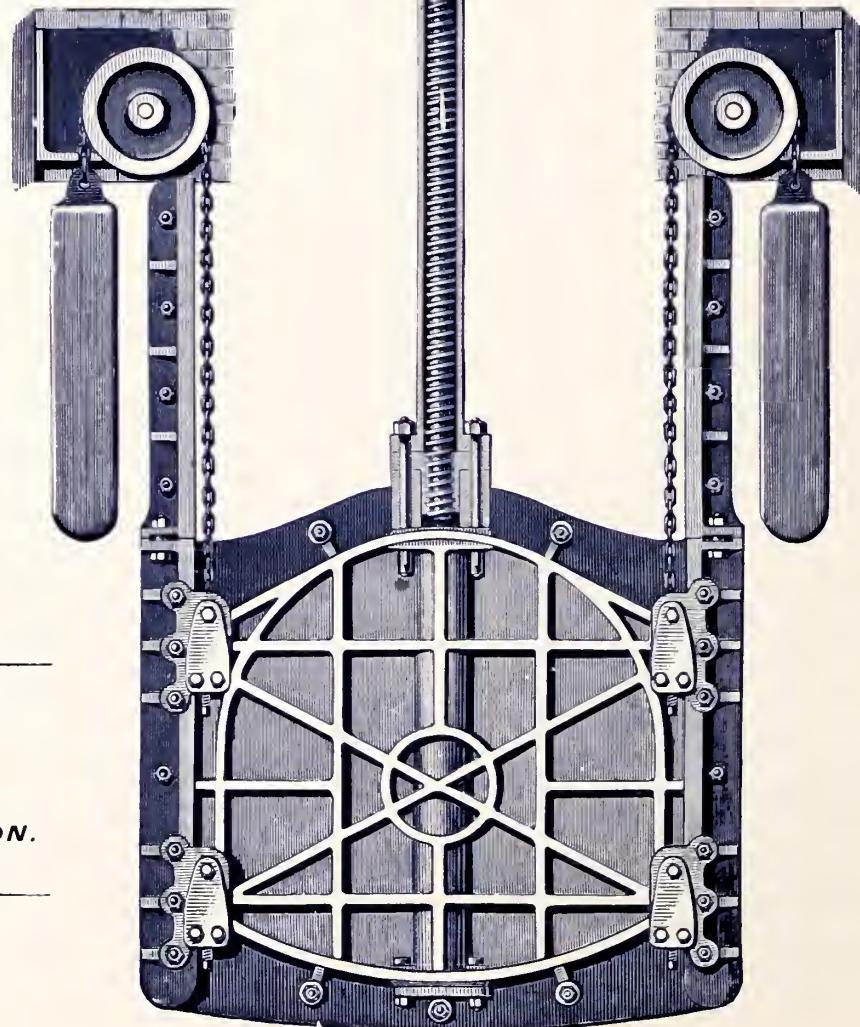
No. 9,227.—J. STONE & CO.'S
IMPROVED PENSTOCK.

Worked by screw and nut arrangement, with counterbalance weights and spur gearing for opening and closing same.



This illustration represents a large size Penstock, but J. STONE & CO. also make smaller sizes, worked by screw and nut arrangement, in which cases the counterbalance weights and spur gearing are not required.

*PRICES ON
APPLICATION.*

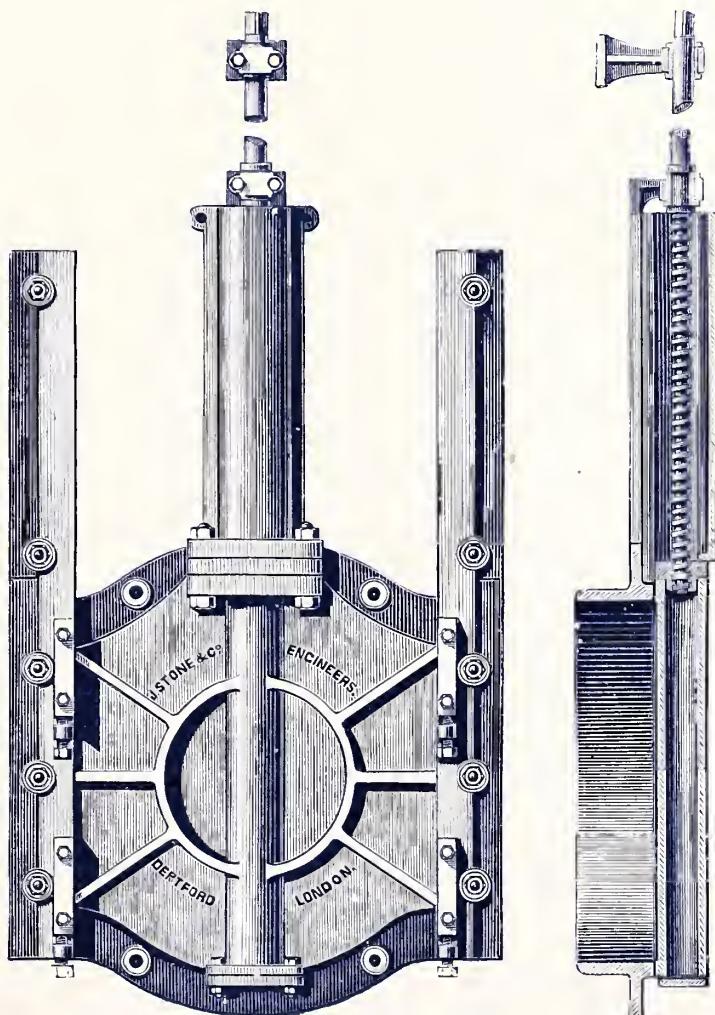


*PRICES
ON
APPLICATION.*

No. 9,228.—J. STONE & CO.'S

IMPROVED PENSTOCK,

With special screw and nut arrangement for SHALLOW Sewers.



No. 9,228.

SIZES USUALLY SUPPLIED.

3-ft. 0-in. diameter in clear.

Cypher Code ... planimetry

4-ft. 6-in. " "

Cypher Code ... planish

5-ft. 6-in. " "

Cypher Code ... planisphere

2-ft. 6-in. x 2-ft. 6-in. square.

Cypher Code ... planiness

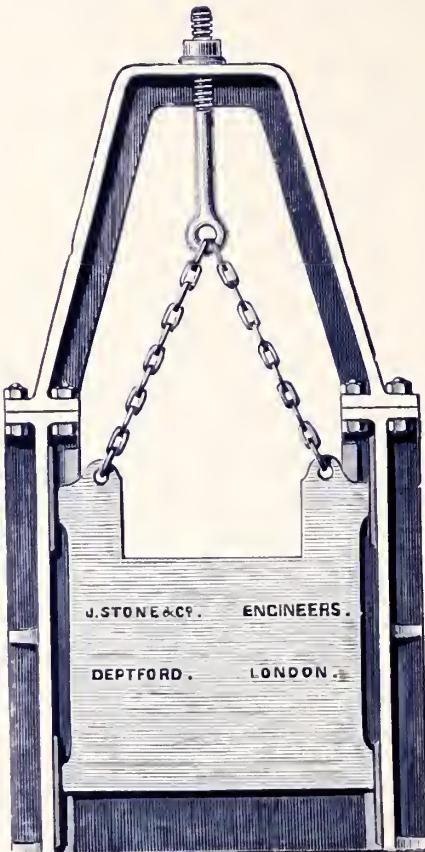
Can be supplied of any required size.

PRICES ON APPLICATION.

In this arrangement the screw is protected from the sewage by means of a cast iron guard (as shown by illustration), which is made sufficiently large to allow it to pass over the screw bearing, or the screw can be supplied *not enclosed* if so required.

No. 9,229.—J. STONE & CO.'S SEWAGE GAUGE.

For calculating the quantity of Sewage or other liquid passing in a given time.



No. 9,229.

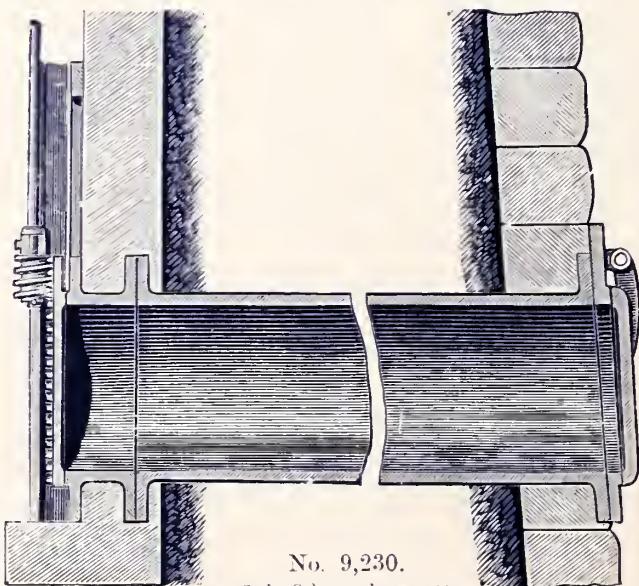
Cypher Code ... planetary

PRICES

ON APPLICATION.

No. 9,230.—J. STONE & CO.'S PENSTOCK AND TIDE FLAP,

Fitted to cast iron pipe, for Sewage Tanks, &c.



No. 9,230.

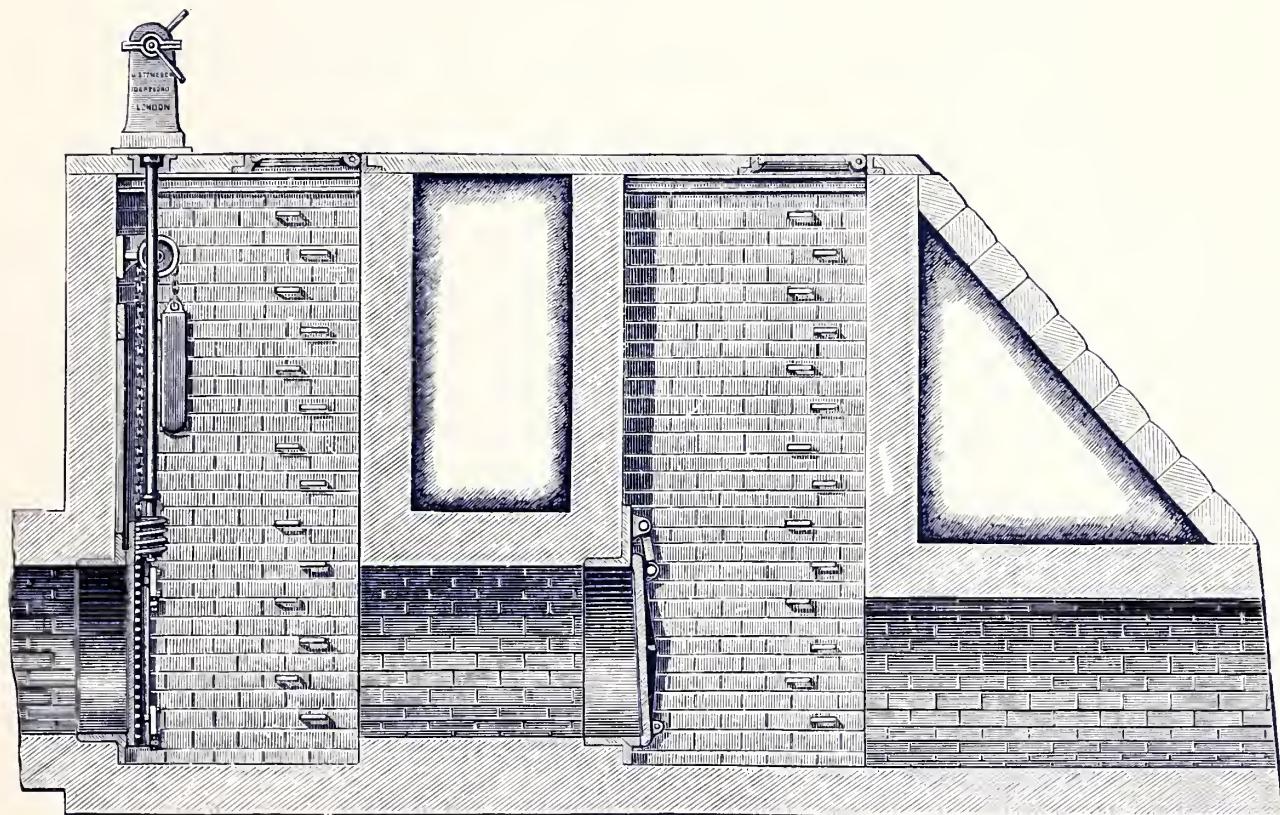
Cypher Code ... planeconcave

PRICES

ON APPLICATION.

No. 9,231.—J. STONE & CO.'S
IMPROVED PLAN OF
FIXING PENSTOCK AND TIDE FLAP,

With arrangement of top gear for opening Penstock quickly and easily.



No. 9,231.

Cypher Code ... planooconical

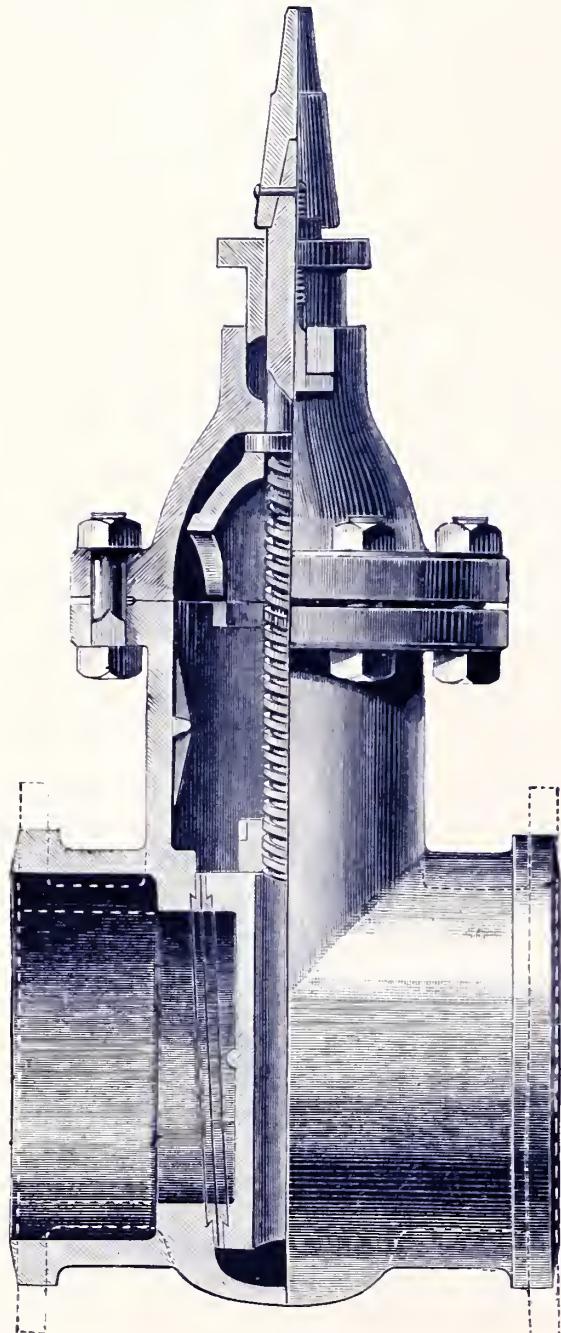
This arrangement has given the greatest possible satisfaction.

— · —
PRICES ON APPLICATION.

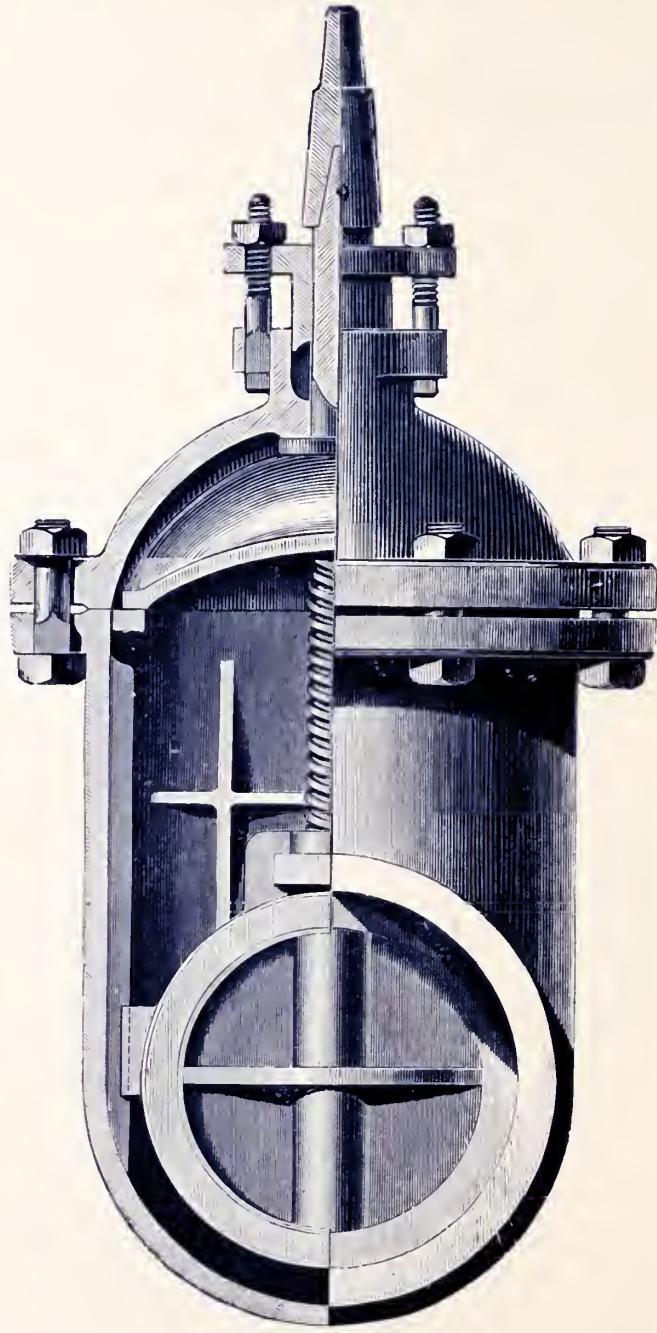
No. 9,232.—J. STONE & CO.'S

IMPROVED "OVAL PATTERN" SLUICE VALVES,

As supplied by them to the principal London, Provincial, and Foreign Water Companies.



No. 9,232.



No. 9,232.

The above illustrations represent a sluice valve with socket ends: the dotted lines show it with flanged ends.

FOR LIST OF PRICES SEE OPPOSITE PAGE.

No. 9,232.—J. STONE & CO.'S

IMPROVED "OVAL PATTERN" SLUICE VALVES,

As Illustrated on Page 30.

A SPECIAL feature of the "AA" Class of Valves is, that the SPINDLE is made of PATENT BRONZE, CAST upon a STEEL CORE passing right THROUGH THE CENTRE of Spindle, so that it possesses the STRENGTH AND STIFFNESS OF STEEL with the INCORRODIBLE PROPERTIES OF BRONZE, and will NEITHER BEND NOR BREAK. It also contains other important advantages, and for these reasons has been ADOPTED BY THE PRINCIPAL LONDON WATER COMPANIES, &c., &c.

WITH SOCKET ENDS.

Diameter of Valve.	Class AA.			Class C.			Extra per valve if with flanged ends.			Extra To price of valve with flanged ends, if fitted with cast-iron flanged spigot and socket, bolted to valve complete.			Extra Hand wheels fitted to spindles.		
	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	
As above described, and with four best gun-metal faces.	With four best gun-metal faces, two on body of sluice and two on valve, with gun-metal screw, and gun-metal nut.			Gas or Sewage Valves, with wrought-iron screw, and nut and faces of cast-iron.											
Inches.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.
2 Cypher Code	1 1 10 planconvex	1 1 10 plantain	1 0 0 plantation	0 0 6 planted	0 6 3 planter	0 3 3 plantership	0 8 6 plashing	0 1 10 plated	0 1 1 platonic	0 10 10 platoo	0 3 9 platitude	0 5 0 plata	0 5 0 plastron	0 3 9 plashy	0 3 9 plasy
2½ Cypher Code	1 7 4 planticle	1 7 4 plantigrade	1 4 0 planting	0 0 9 plash	0 7 6 plashing	0 3 3 plashy	0 8 6 platen	0 1 1 platonic	0 1 1 platonicism	0 10 10 platoo	0 3 9 platitude	0 5 0 plata	0 3 3 planter	0 3 3 plantership	0 3 3 plasy
3 Cypher Code	1 8 8 plasmatic	1 8 8 plastron	1 4 6 plateab	0 0 10 plated	0 8 6 platen	0 3 9 plashy	0 10 0 platoo	0 1 1 platonic	0 1 1 platonicism	0 10 10 platoo	0 3 9 platitude	0 5 0 plata	0 3 3 planter	0 3 3 plantership	0 3 9 plasy
4 Cypher Code	1 14 3 platonic	1 14 3 platotism	1 10 0 photrist	0 1 1 platonic	0 10 0 platoo	0 1 1 platonic	0 16 0 playful	0 1 7 pleasant	0 1 1 platonic	0 10 10 platoo	0 3 9 platitude	0 5 0 plata	0 3 3 planter	0 3 3 plantership	0 3 9 plasy
5 Cypher Code	2 4 8 plandit	2 4 8 plausible	1 18 3 photurist	0 1 5 playful	0 16 0 playful	0 1 5 playful	0 18 4 pleasantly	0 1 7 pleasant	0 1 5 platonic	0 16 0 playful	0 3 9 platitude	0 5 0 plata	0 3 3 planter	0 3 3 plantership	0 3 9 plasy
6 Cypher Code	2 18 6 pleand	2 18 6 pleander	2 10 0 pleading	0 1 7 pleasant	0 18 4 pleasantly	0 1 7 pleasant	0 18 4 pleasantly	0 1 10 pleasantly	0 1 1 platonic	0 18 4 pleasantly	0 5 0 platitude	0 5 0 plata	0 3 3 planter	0 3 3 plantership	0 3 9 plasy
7 Cypher Code	3 11 10 pleasing	3 11 10 pleasingly	3 1 6 pleasingness	0 1 10 pleasurable	1 3 6 pleasurably	0 5 0 pledge	1 3 6 pleasurably	0 1 10 pleasurable	0 1 1 platonic	1 3 6 pleasurably	0 5 0 platitude	0 5 0 plata	0 3 3 planter	0 3 3 plantership	0 3 9 plasy
8 Cypher Code	4 7 4 pleasurely	4 7 4 plebian	3 11 9 plectrum	0 2 10 pledger	1 6 8 pledget	0 5 0 pledged	1 6 8 pledget	0 2 10 pledger	0 3 0 plenian	1 13 3 plenitude	0 5 0 plenteous	0 5 0 plentid	0 3 3 planter	0 3 3 plantership	0 3 9 plasy
9 Cypher Code	5 4 0 pleiocon	5 4 0 plenary	4 7 6 plenianess	0 3 0 plenary	4 7 6 plenianess	0 3 0 plenary	4 7 6 plenianess	0 4 0 plentiful	1 19 6 plentifuly	0 5 0 plenteous	0 6 0 pleonasm	0 6 0 pliability	0 7 9 plaster	0 7 9 plaster	0 7 9 plasy
10 Cypher Code	6 4 3 plenteously	6 4 3 plenteousness	5 2 0 plenty	0 4 0 plentiful	5 2 0 plenty	0 4 0 plentiful	5 2 0 plenty	0 4 0 plentiful	1 19 6 plentifuly	0 5 0 plenteous	0 6 0 pleonasm	0 6 0 pliability	0 7 9 plaster	0 7 9 plaster	0 7 9 plasy
12 Cypher Code	8 2 8 pleomatic	8 2 8 plethora	6 12 6 plethoric	0 4 0 pleura	6 12 6 plethoric	0 4 0 pleura	6 12 6 plethoric	0 6 3 pleura	3 8 6 phantom	0 7 9 plaster	0 6 0 plenteous	0 6 0 plentid	0 7 9 plaster	0 7 9 plaster	0 7 9 plasy
14 Cypher Code	11 16 6 pliable	11 16 6 pliability	— — — phantom	0 6 3 phantom	— — — phantom	0 9 4 phantom	— — — phantom	0 6 3 phantom	4 5 6 phantom	0 7 9 plaster	0 6 0 plenteous	0 6 0 plentid	0 7 9 plaster	0 7 9 plaster	0 7 9 plasy
15 Cypher Code	13 12 6 pliated	13 12 6 pliation	— — — phantom	0 9 4 phantom	— — — phantom	0 11 10 plotting	— — — phantom	0 11 10 plotting	4 15 0 plougher	0 7 9 plaster	0 6 0 plenteous	0 6 0 plentid	0 7 9 plaster	0 7 9 plaster	0 7 9 plasy
16 Cypher Code	14 15 6 phloeme	14 15 6 plod	— — — plodding	0 15 0 plodding	— — — plodding	0 15 0 plodding	— — — plodding	0 15 0 plodding	5 15 0 plowshare	0 7 9 plaster	0 6 0 plenteous	0 6 0 plentid	0 7 9 plaster	0 7 9 plaster	0 7 9 plasy
18 Cypher Code	19 1 9 plowed	19 1 9 plowing	— — — plowland	— — — plowman	— — — plowman	— — — plowshare	— — — plowshare	— — — plowshare	— — — plowshare	— — — plowshare	— — — plowshare	— — — plowshare	— — — plowshare	— — — plowshare	— — — plowshare

Larger sizes made up to 48 inches diameter.....PRICES ON APPLICATION.

For further Particulars of SLUICE VALVES and OTHER WATER FITTINGS, see Catalogue (Section A.)

Registered Trade Mark

METROPOLITAN
SLUICE VALVE.

Registered Trade Mark.

METROPOLITAN
SLUICE VALVE.

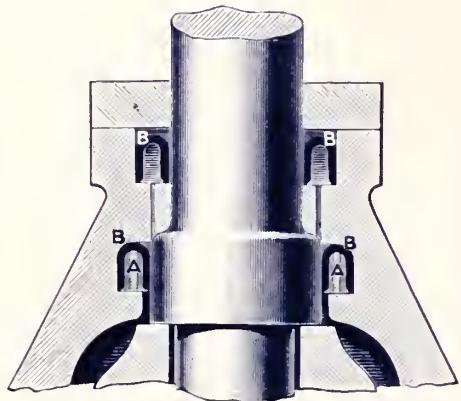
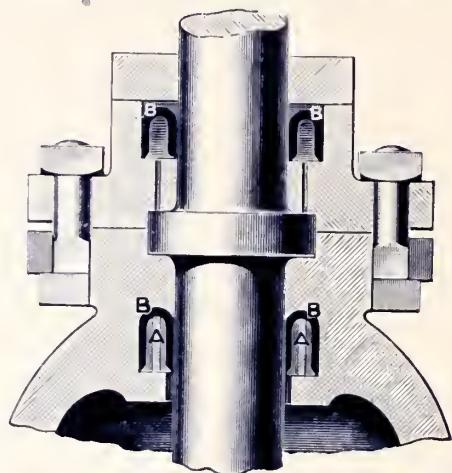
No. 9,233.—J. STONE & CO.'S

LATEST IMPROVED PATENT

"METROPOLITAN" SLUICE VALVE.

Requiring NO REPACKING to Stuffing Box, fitted with SPINDLE which will NEITHER BEND NOR BREAK, AND UNWEARABLE FACES.

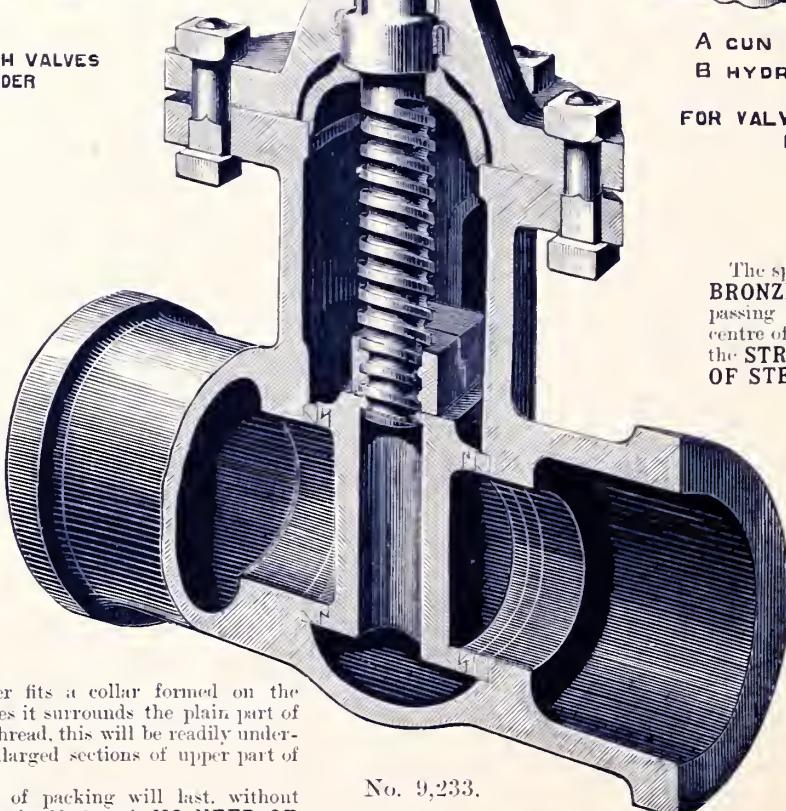
ADOPTED BY THE PRINCIPAL LONDON WATER COMPANIES, &c.

FOR 12-INCH VALVES
AND UNDERA COPPER METAL SPRING RING
B HYDRAULIC PACKINGFOR VALVES OVER 12 INCHES
DIAMETER**DESCRIPTION.**

Instead of the ordinary hemp packed stuffing box, we fit in its place hydraulic packing of a special material, and below and independent of this, we fit a hydraulic cupped leather and spring ring : either of these packings will, in ordinary use, last the life of the valve, but in case the bottom packing should, from some exceptional cause, become imperfect the top hydraulic packing would still keep the stuffing box perfectly tight.

In small size Sluice Valves, say 12 ins. diameter and under, the leather fits a collar formed on the spindle, whilst in larger sizes it surrounds the plain part of the spindle just above the thread, this will be readily understood by referring to the enlarged sections of upper part of valves shown above.

As this improved mode of packing will last, without renewal, as long as the valve itself, there is **NO NEED OF ANY REPACKING** whatever, consequently all expense and inconvenience in breaking up roadway, excavating and making good ground surface (an absolute necessity when re-packing ordinary sluice valves) is avoided.



No. 9,233.

sides AVOIDING the inconvenience of
ROADWAY, &c., as before pointed out.

FOR PRICES SEE OPPOSITE PAGE.

The spindles are made of **PATENT BRONZE** cast upon **STEEL CORES** passing **RIGHT THROUGH** the centre of spindles, so that they possess the **STRENGTH AND STIFFNESS OF STEEL**, with the **INCORRODIBLE PROPERTIES OF BRONZE**, and will **NEITHER BEND NOR BREAK**.

The **FACES** of the valves are made of **PATENT BRONZE**, which greatly adds to their durability.

It will be readily seen that by using the Sluice Valves above described the **SAVING** to Water Companies will be very great, in fact, the cost of once repacking an ordinary sluice valve will more than pay the extra **FIRST COST** of our patent **VALVES** before **BREAKING UP**

J. STONE & CO.'S NEW PATENT "METROPOLITAN" SLUICE VALVES.

The following copies of a few of the Testimonials we have received will clearly show the great advantages possessed by our Patent "Metropolitan" Sluice Valves over the ordinary Sluice Valves, as sold by other Makers :—

KENT WATER WORKS, DEPTFORD.

DEAR SIRS,—

In reply to your enquiry, I beg to state that the cup leather packing introduced into your "Metropolitan" Sluice Valve for the last five years has proved very efficient; during this period no re-packing has been required.

Yours truly,
(Signed) W. MORRIS, Engineer.

55, PARLIAMENT STREET, WESTMINSTER, S.W.

GENTLEMEN,—

In reply to your enquiry, your "Metropolitan" Sluice Valve, which I have used now for some years for various town water supplies, gives entire satisfaction. The hydraulic leather which you have introduced into the cover, obviating the necessity of periodically opening the ground to re-pack the stuffing box, constitutes, in my opinion, a great improvement, and effects a considerable saving of expense to water undertakings.

Yours truly,
(Signed) JABEZ CHURCH.

TORQUAY WATER WORKS.

DEAR SIRS,—

In reply to yours of the 16th ult., I have much pleasure in stating that your "Metropolitan" Sluice Valves have given every satisfaction. The hydraulic leather under the ordinary stuffing box is very useful, adding to the life of the packing, and enabling it to be replaced under pressure.

Yours faithfully,
(Signed) THOMAS S. WICKS, A.M.I.C.E., Engineer.

ATHERSTONE WATER WORKS.

GENTLEMEN,—

Your Patent "Metropolitan" Sluice Valves have been at work both at Atherstone and Melton Mowbray Water Works for some time, and give every satisfaction. I may add that the same sort of Sluice Valves are being fixed in the Mains of the Polesworth Water Works.

I am, Gentlemen,
Yours faithfully,
(Signed) W. R. H. CHIPPERFIELD, A.M.I.C.E.,
Resident Engineer for the Works.

LAMBETH WATER WORKS.

We are authorised to state that our Sluice Valves (Patent Metropolitan) have been used for some time past, and are still being used by the Lambeth Water Works Company.

PELHAM CHAMBERS, ANGEL ROW, NOTTINGHAM.

DEAR SIRS,—

I have used your "Metropolitan" Sluice Valves at many Works, and they have given me very great satisfaction.

I am,
Yours very truly,
(Signed) W. H. RADFORD, A.M.I.C.E., A.R.I.B.A., M.S.I.

GROSVENOR CHAMBERS, 59, CORPORATION STREET, BIRMINGHAM.

DEAR SIRS,—

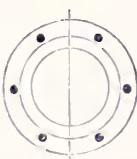
In reply to the enquiry you have made of me with regard to your "Metropolitan" Sluice Valve I have much pleasure in stating that these Valves are used in the Uckfield Water Works and act with every satisfaction. There is no doubt in my mind of the advantages of this Valve over the ordinary Sluice Valve, especially when the mains are under great pressure.

Yours faithfully,
(Signed) H. BERTRAM NICHOLS, C.E.

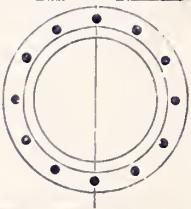
STANDARD DIMENSIONS OF SLUICE VALVES. (Nos. 9,232 and 9,233.)

Diameter of Bore of Valve, Inches.	Diameter of Flanges,		Thickness of Flanges,		No. of Bolts,	Size of Bolts,		Centre to Centre of Bolt Holes,		Length of Valve over Flanges.	
	Inches.	m m.	Inches.	m m.		Inches.	m m.	Inches.	m m.	Inches.	m m.
1½	38	5½	135	3½	19	1	1	13	3½	98	8
2	51	6	152	3	19	1	1½	13½	4½	121	8½
2½	64	6½	165	3	19	4	1½	14½	5½	130	9¾
3	76	7	178	1½	20½	4	1½	14½	5½	146	10½
4	102	8½	216	2½	22½	4	1½	14½	6½	172	11
5	127	9½	218	2½	22½	6	2	16	8½	206	11½
6	152	11	279	2½	29½	6	2	16	9½	235	11½
7	178	12½	318	1	25½	6	2	16	10½	267	12½
8	203	13½	340	1	25½	6	2	19	11½	292	13½
9	229	15	381	1	25½	8	2	19	12½	324	13½
10	254	16	406	1½	27	8	2	19	13½	349	14½
12	305	18½	470	1½	28½	10	2	19	16	406	16½
13	330	20	508	1½	32	10	2	22½	17½	444	19
14	356	20½	524	1½	32	10	2	22½	18½	464	19
15	381	21½	546	1½	35	12	2	22½	19½	489	20
16	406	23	584	1½	35	12	2	22½	19½	502	20½
18	457	25	635	1½	35	12	2	22½	22½	578	21½
20	508	27½	702	1½	38	14	1	25½	25½	638	21½
21	533	28½	727	1½	41	14	1	25½	26½	664	21½
22	559	30½	765	1½	44½	14	1	25½	27½	698	21½
24	610	32½	816	1½	44½	16	1	25½	29½	753	25½
30	762	39½	1005	1½	44½	18	1	28½	36½	927	30

For all Sluice Valves up to and including 11 inches diameter, the vertical centre line of Valve passes between the holes, thus -

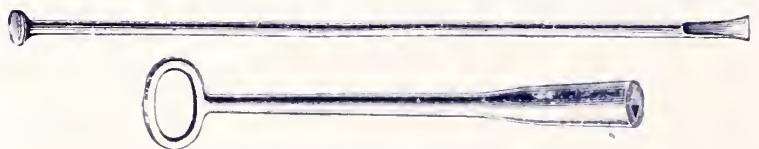


For all Sluice Valves above 11 inches diameter, the vertical centre line of Valve passes through two holes, thus -



J. STONE & CO.'S TURNCOCKS' TOOLS.

For Opening and Closing Valves.

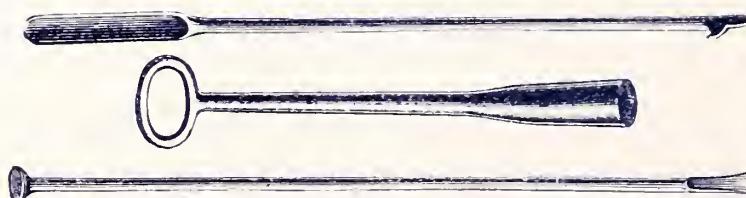


No. 9,234. ORDINARY PATTERN.

Black	...	...	...	...	10½	per Set of 2.
Bright	...	...	...	...	14½	per Set of 2.

Cypher Code ... polarity

Cypher Code ... polarization

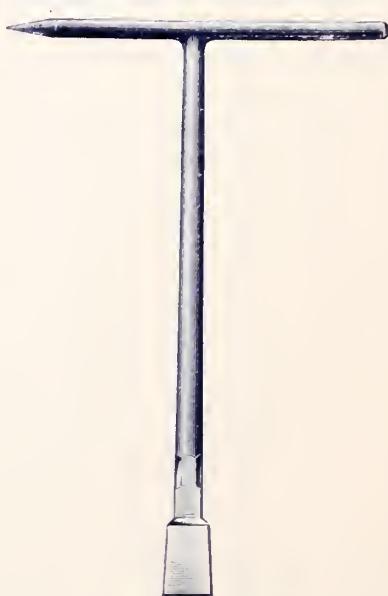


No. 9,235. LONDON PATTERN.

Black	...	...	...	...	12 9	per Set of 3.
Bright	...	...	...	...	18 6	per Set of 3.

Cypher Code ... polarize

Cypher Code ... polarized



No. 9,236. TEE SPANNER.

Black	...	6	each.
Bright	...	11 6	each.

Cypher Code ... polemarch

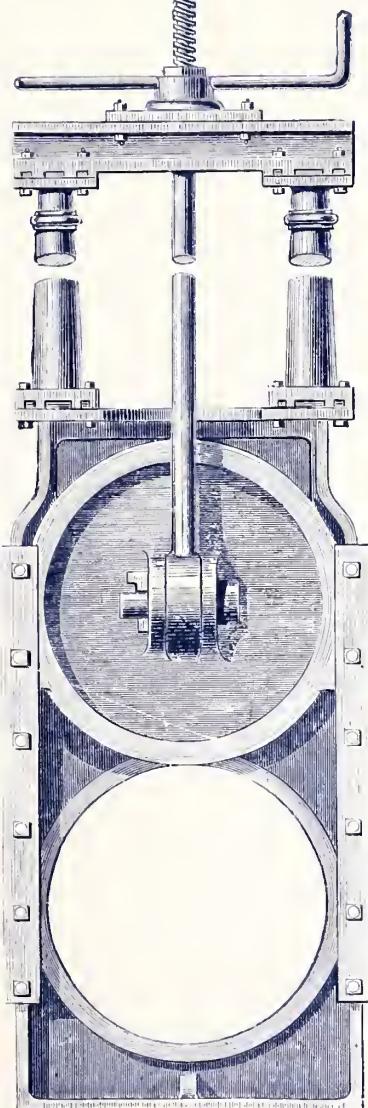
Cypher Code ... polemic

No. 9,237. J. STONE & CO.'S

IMPROVED RESERVOIR VALVE,

With pillars and screw 5 feet long, working
through gun-metal nut.

Actuated by either wrought iron handle, as
illustrated, or by hand wheel, at same
prices.



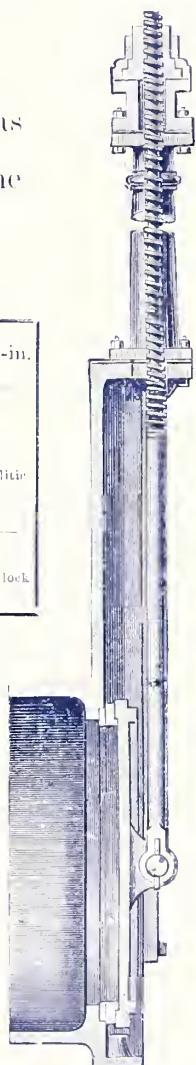
No. 9,237.

Diameter in clear }	4	6	9	12	15	18	24	36-in.
With iron faces	60	65 6	81 3	99	137 9	172	217	—
Cypher Code	pollemose	polenta	polishy	polite	politely	politeless	politesse	politic
With gun-metal faces }	64 3	72 6	94 6	119	164 6	209	270	—

The 4, 6, 9, and 12 inch sizes are usually
made with **one** pillar only, and are
priced accordingly. They can be sup-
plied with **two** pillars, if required, at
an extra rate.



Can be supplied of any required size.



No. 9,237.

No. 9,238.—J. STONE & CO.'S **IMPROVED RESERVOIR VALVE,**

As illustrated above, but with **square** instead of **circular** opening.
Actuated by either wrought iron handle, as illustrated, or by hand wheel at same prices.

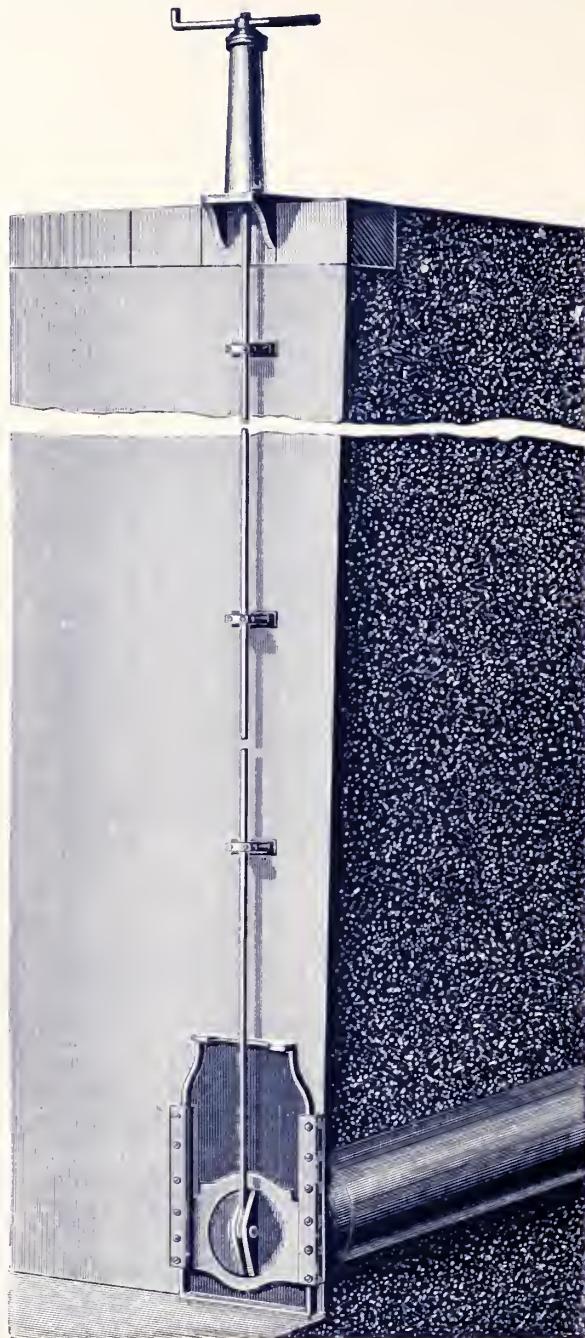
Sizes	8	9 $\frac{3}{4}$	15	18	25 $\frac{1}{2}$ and 30-in.
Cypher Code	pollonaise	poltoon	polyandrian	polyanthus	polyetary polyglot

PRICES ON APPLICATION.

No. 9,239.—J. STONE & CO.'S

IMPROVED RESERVOIR VALVE.

Actuated by Pillar from Top of Reservoir, with Rod and Guides.



With Top Lifting
Gear and 5 feet of
Lifting Rod,
but exclusive of
Guides.

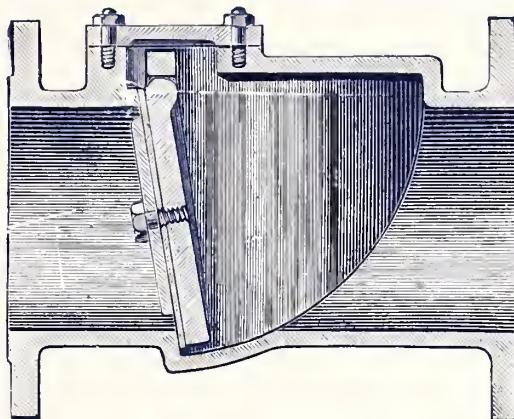
Can be supplied
of any
required size.

No. 9,239.

Diameter in clear	4	6	9	12	15	18	24	36 inches.
With iron faces	63 6	71 -	88 6	109 -	134 -	164 6	213 6	— each.
Cypher Code... polygon	polygonal	polygonal	polygrammic	polygraph	polygraphy	polyhedron	polyhedral	polyhedron
With gun-metal faces	67 9	78 -	101 6	129 -	161 -	201 6	266 6	"
Cypher Code... polymathy	pma	puab	puaba	puabab	puabac	puababd	puabae	"

No. 9,240.—J. STONE & CO.'S
REFLUX OR RETAINING VALVE, WITH CLEAR STRAIGHT-WAY.

TO KEEP THE WATER IN MAINS WHEN THE PRESSURE IS TAKEN OFF.

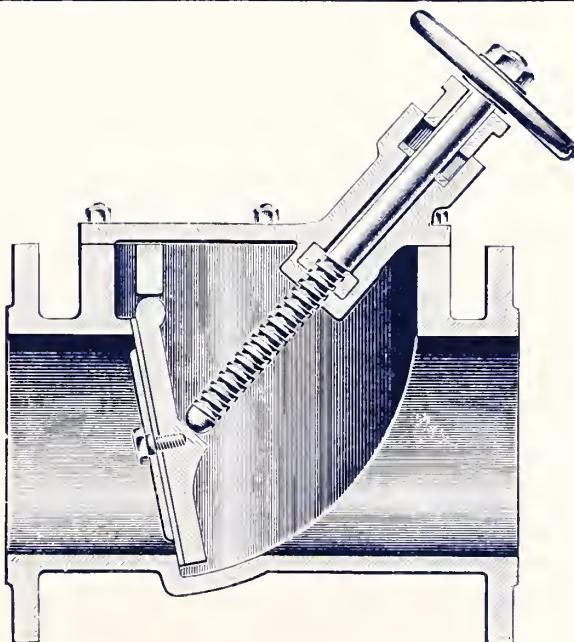


No. 9,240.

PRICES.

Diameter of flanges... ...	2	3	4	5	6	7	8	9	10	12	15	16	30 inches
Length, face to face of flanges... ...	6	7	8½	9¾	11	12½	13¾	15	16	18½	—	—	—
With leather face on valve and flanged ends as illustrated	7½	9½	11½	12½	14½	15½	17½	18¾	20½	22½	—	—	—
With two gum-metal faces (1 on valve and 1 on body), and hinge bushed with gun-metal	16 3	23 3	31 9	38 6	46/-	53 3	65/6	73 6	94 3	120 -	—	—	—
If ends of above fitted with flanged spigot and socket bolted to valve complete, for connecting to socket pipes extra	20 -	28 -	36 9	44 6	53/-	61 3	73 6	82/6	103 6	126 6	—	—	—
Cypher Code ... puabaf puabag puabah puabai puabaj puabak puabal puabam puabau puabao puabap puabai puabar	puabas	puatat	puaban	puabay	puabaw	puabax	puabay	puabaz	puabea	puabeb	puabee	puabed	puabef
Cypher Code ... puabeg puabeh puabei puabej puabek puabel puabem puaben puabeo puabep puabeq puaber puabes	6 3	8 6	10 10	16 -	18 4	23 6	26 8	33 3	39 6	50 6	--	--	--

LARGER SIZES PRICES ON APPLICATION.



No. 9,241.

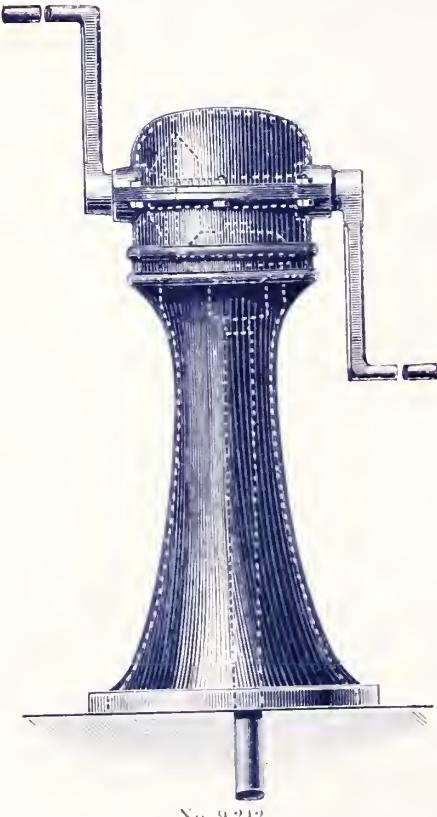
Cypher Code ... puabct

No. 9,241.—J. STONE & CO.'S
REFLUX OR RETAINING VALVE, WITH CLEAR STRAIGHT-WAY.

As No. 9,240 but fitted with Screw-down arrangement, by which the valve can be kept closed altogether, or opened to any extent required.

No. 9,242.—J. STONE & CO.'S
IMPROVED TOP GEAR.

With arrangement of bevel wheels for opening and closing penstock quickly and easily, as illustrated on page 29.

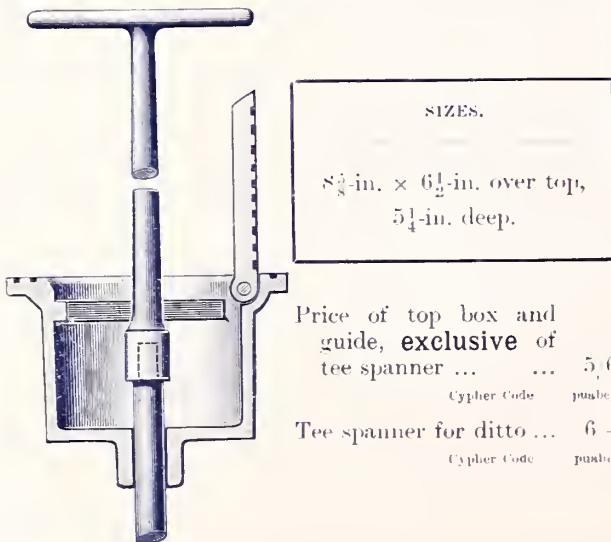


No. 9,242.

For penstocks up to 1 foot diameter ... £7 12s. 6d.
Cypher Code puabew

No. 9,244.—**TOP BOX & GUIDE.**

With tee spanner, for opening and closing penstock.



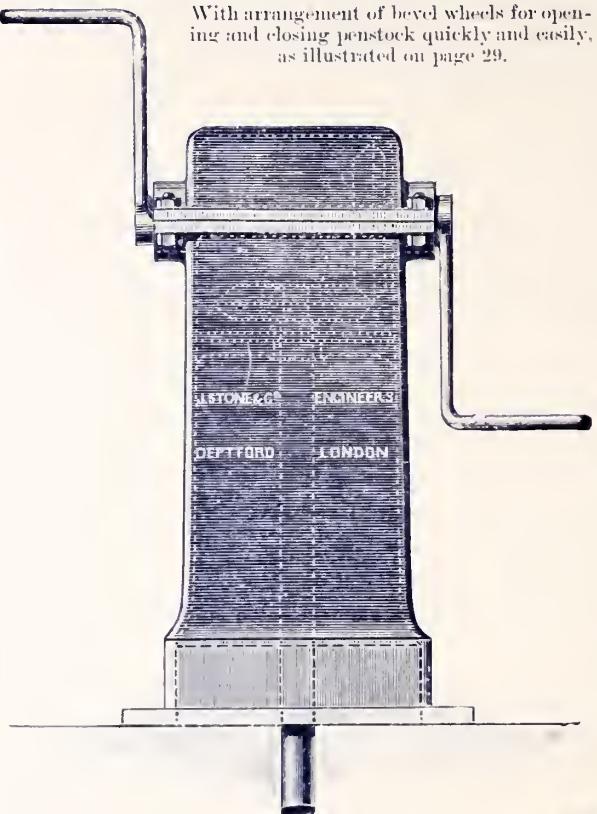
Price of top box and guide, **exclusive of** tee spanner 5 6
Cypher Code puabew

Tee spanner for ditto ... 6 —
Cypher Code puabew

No. 9,244.

No. 9,243.—J. STONE & CO.'S
IMPROVED TOP GEAR.

With arrangement of bevel wheels for opening and closing penstock quickly and easily, as illustrated on page 29.



No. 9,243.

For penstocks up to 6 feet diameter,
per set £8 15s. 0d.
Cypher Code puabew

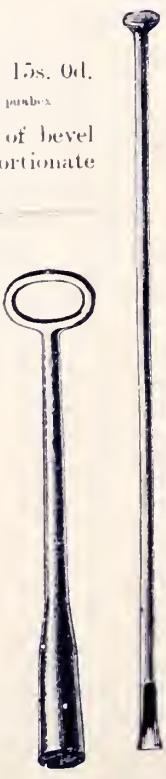
Can be supplied with **SCREW** instead of bevel wheels arrangement if required, at a proportionate price.

No. 9,245.
SOCKET AND BAR,

Instead of tee spanner, for large size penstocks.

If black 10/- per set.
Cypher Code puabew

If bright 14 per set.
Cypher Code puabid



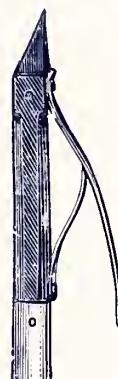
No. 9,245.

DRAIN CLEANSING APPARATUS.

No. 9,246.



No. 9,247.



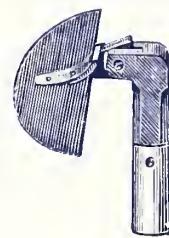
No. 9,248.



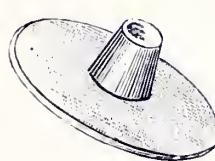
No. 9,249.



No. 9,249A.



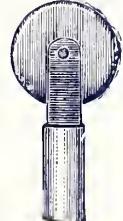
No. 9,250.



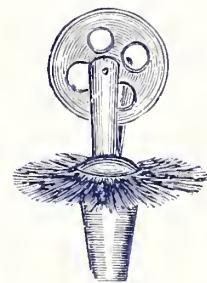
No. 9,251.



No. 9,252.



No. 9,253.

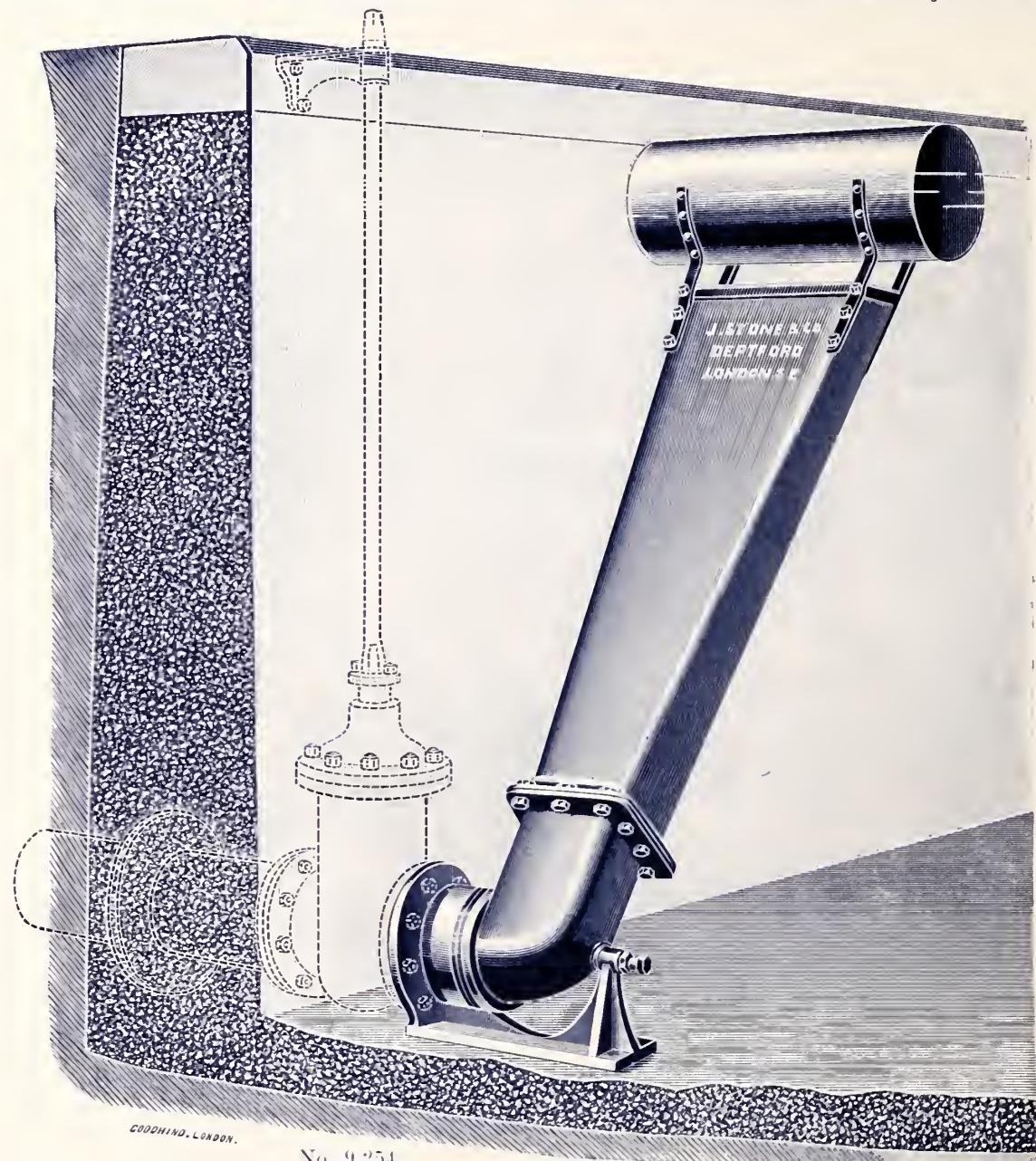


		2-ft. 0-in.	2-ft. 6-in.	3-ft. 0-in.	3-ft. 6-in.	4-ft. 0-in.	4 ft. 6-in.	5-ft. 0-in. length.
No. 9,246.	Cane rods, with brass connections	2 1 Cypher Code puabig	2/4 puabim	3/3 puabio	3 10 puabijo	4 1 puabir	4 5 puabis	4 5 puabit each.
„	9,247.	Spring hook	... ... ...	... ... ...	... ... ...	... ... ...	... ... ...	6 3 puabiy „
„	9,248.	Double worm screw	... ... ...	... ... ...	... ... ...	... ... ...	... ... ...	3 1 puabiy „
„	9,249 and 9,249A.	Jointed scraper, shut (No. 9,249); Ditto, open (No. 9,249A)				... Cypher Code puabotw	... puabotz	3 6 puabot „
„	9,250.	India-rubber plunger	... ... ...	... ... ...	4-in., 3 3; Cypher Code puabotw	5-in., 3 9; puabotz	6-in., 4 4; puabotd	4 4 „
„	9,251.	Clearing wheel	... ... ...	... ... ...	... ... ...	... ... ...	... ... ...	2 8 puabotc „
„	9,252.	Clearing roller	... ... ...	... ... ...	... ... ...	... ... ...	... ... ...	4 9 puabotg „
„	9,253.	Drain brush	... ... ...	4-in., 7 10; Cypher Code puabothw	5-in., 7 10; puabothic	6-in., 8 9; puabothl	8-in., 11 6; puabotho	11 6 „

No. 9,254.—J. STONE & CO.'S

"AUTOMATIC" FLOATING SEWAGE OUTLET,

Also used as Automatic Floating Water Reservoir and Outlet. For drawing off pure and clear water from near the top of water level, instead of from bottom of reservoir where impurities necessarily accumulate.



No. 9,254.

SIZES USUALLY SUPPLIED.

2-in. diameter of outlet. Cypher Code... pnabothm	3-in. diameter of outlet. Cypher Code... pnabothna	4-in. diameter of outlet. Cypher Code... pnabothpa	6-in. diameter of outlet. Cypher Code... pnabothqe
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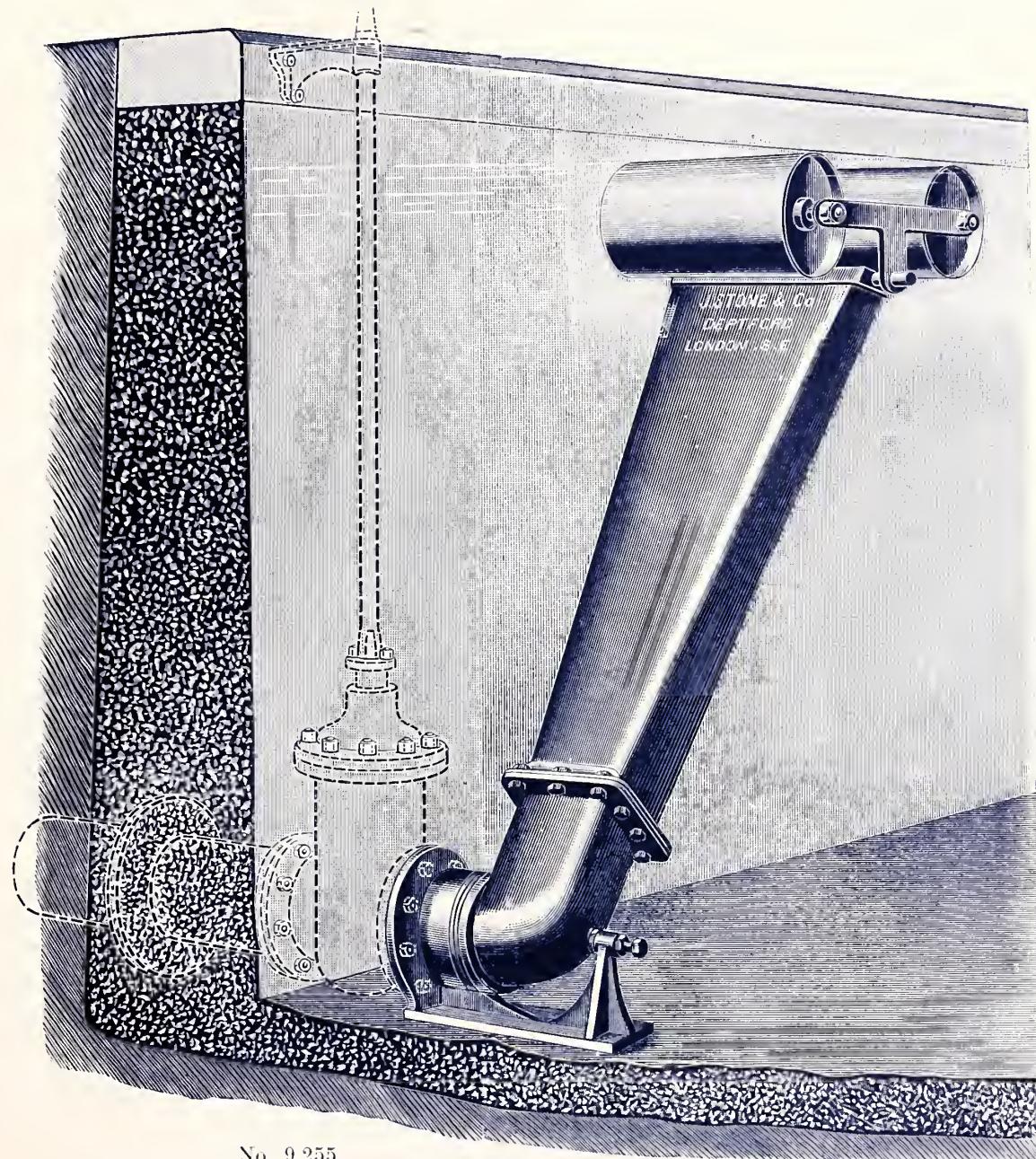
8-in. diameter of outlet. Cypher Code... pnabothra	9-in. diameter of outlet. Cypher Code... pnabothray	10-in. diameter of outlet. Cypher Code... pnaboths
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12-in. diameter of outlet. Cypher Code... pnabothly	15-in. diameter of outlet. Cypher Code... pnabothua	18-in. diameter of outlet. Cypher Code... pnabothy
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Can be supplied without sluice valve if required. Can be supplied of any required size.

PRICES ON APPLICATION.

No. 9,255.—J. STONE & CO.'S
"AUTOMATIC" FLOATING SEWAGE OUTLET OR WATER RESERVOIR OUTLET,
 HAVING DOUBLE SWIVEL FLOATS.



No. 9,255.

SIZES USUALLY SUPPLIED.

2-in. diameter of outlet.

Cypher Code . puabut

3-in. diameter of outlet.

Cypher Code... puabutting

4-in. diameter of outlet.

Cypher Code . puabuto

6-in. diameter of outlet.

Cypher Code . puabutope

8-in. diameter of outlet.

Cypher Code . puabutta

9-in. diameter of outlet.

Cypher Code . puabutton

10-in. diameter of outlet.

Cypher Code . puabuty

12-in. diameter of outlet.

Cypher Code . puabhis

15-in. diameter of outlet.

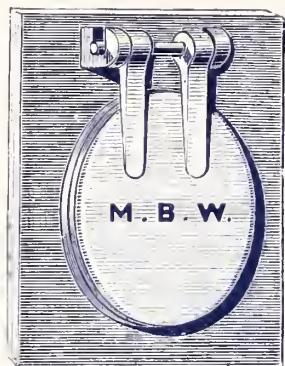
Cypher Code... puachism

18-in. diameter of outlet.

Cypher Code . puacbite

Can be supplied without sluice valve if required. Can be supplied of any required size.

PRICES ON APPLICATION.



No. 9,256.

TIDE FLAPS.

No. 9,256.—J. STONE & CO.'S IMPROVED "HOOK-JOINT" TIDE FLAP.

	6	9	12	15	18-in. in clear.
Painted	4 7	7 9	12 8	20 -	27 9 each.
Cypher Code	pnachiv	pnachiv	pnachob	pnachob	pnachcode

Galvanized	6 8	11 6	20	30 3	43 3 "
Cypher Code	pnachobst	pnachobot	pnachusm	pnachute	pnachwir



No. 9,257.

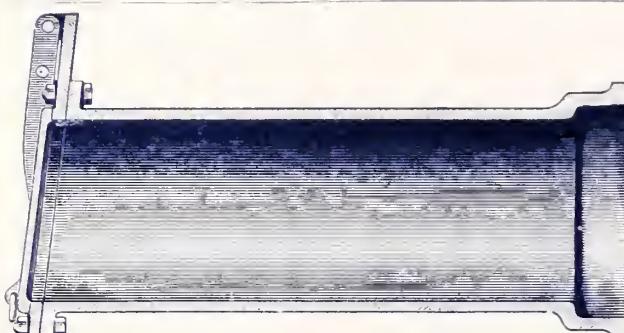
No. 9,257.—J. STONE & CO.'S

IMPROVED "HINGED-JOINT" TIDE FLAP.

	3	4	6	9	12	15	18-in. in clear.
Painted	4 -	4 6	5	8 4	12 11	20 6	29 3 each.
Cypher Code	pnacel	pnacel	pnacelvity	pnacel	pnacel	pnacel	pnacell

Galvanized	4 6	5 -	6 8	11 8	19 3	29 7	44 3 "
Cypher Code	pnacelam	pnacelam	pnacelvity	pnacelam	pnacelam	pnacel	pnacell

For larger sizes, see following pages.



No. 9,258.

No. 9,258. J. STONE & CO.'S

IMPROVED

"HINGE-JOINT" TIDE FLAP.

Fitted on to cast-iron socket pipe, 2 feet long, as illustration, the socket to suit stoneware pipe.

Internal diameter of pipe	4	6	9	12	15	18	21	24 inches.
With painted pipe and tide flap	17 3	27 -	39 6	60	77 9	116	154 3	217 3 each.
Cypher Code	pnacelg	pnacelg	pnacelg	pnacelhat	pnacelhat	pnacelhat	pnacelhat	pnacelg

With painted pipe and galvanized tide flap	17 9	28 9	43	66 3	87	130 9	172 3	251 3 "
Cypher Code	pnacel							

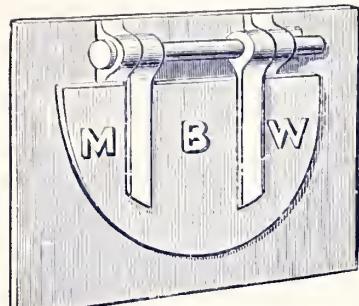
The cast iron pipe can be made of any length, or fitted with flanged ends, if required, at an extra price.
Strong wrought iron chain for opening Tide Flaps at 10d. per foot. Cypher Code pnacelma

Any of the above can be supplied with gun-metal faces, and hinge bushed with gun-metal, if required.

Cypher Code pnacelfour

The flaps of either of above can be supplied, if required, of "Tinned Copper" or of "Aluminium," so as to be more sensitive, and to act with a very slight head of water.

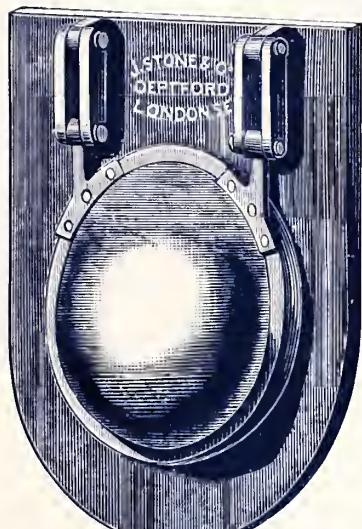
PRICES ON APPLICATION.



No. 9,259.

No. 9,259.—J. STONE & CO.'S
"HALF-ROUND" TIDE FLAP.

	Painted.	Galvanized.
Size in clear, 9 $\frac{3}{4}$ -in. wide by 5-in. high Cypher Code ...	10/9 puacofiu	13/10 each. puacogua
," , 14 $\frac{1}{4}$ -in. wide by 7 $\frac{1}{4}$ -in. high Cypher Code ...	16/6 puacogad	21/4 ,, puacogac



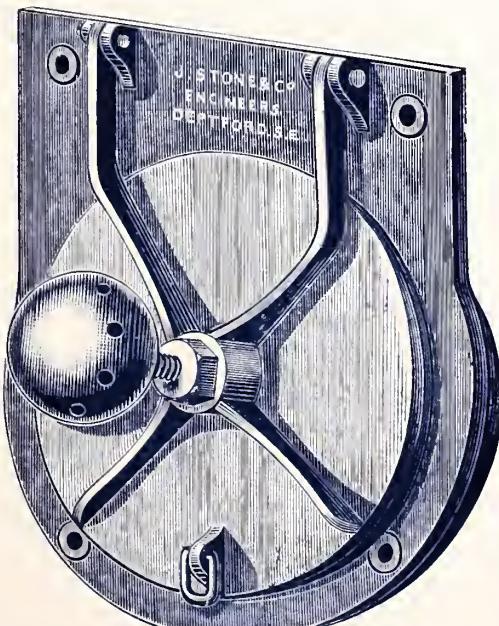
No. 9,260.

No. 9,260.—J. STONE & CO.'S
IMPROVED TIDE FLAP,

With gun-metal faces and hollow copper flap.

Made specially for sewers having LITTLE FALL, the hollow copper flap being exceedingly sensitive.

	4	6	9	12	15	18	21	24-in. <small>in clear.</small>
Cypher Code ...	30/9 puacogaff	39/6 puacogah	56/9 puacogaje	75/9 puacogal	96/- puacogam	128/9 puacogapt	— puacogarp	— puacogat



No. 9,261.

No. 9,261.—J. STONE & CO.'S
BALANCED TIDE FLAP,

With adjustable weight.

Specially suitable for situations where the flap is required to be opened by a very slight head of water.

SIZES USUALLY SUPPLIED.

	6	9	12	15	18-in. <small>in clear.</small>
Cypher Code ...	16/- puacogatis	22/9 puacoge	28/3 puacoged	37/9 puacogeda	45/6 each. puacogodal
	21	24	30	36	48-in. <small>in clear.</small>
Cypher Code ...	66/6 puacogedam	108/6 puacogedany	159/- puacogef	215/- puacogefly	377/6 each. puacogfi h

Can be supplied of any required size.

The flaps of either of above can be supplied, if required, of "Tinned Copper" or of "Aluminium," so as to be more sensitive, and to act with a very slight head of water.

PRICES ON APPLICATION.

No. 9,262.—J. STONE & CO.'S

SUPERIOR CAST IRON TIDE FLAPS.

No. 9,262.

WITH LEAD FACINGS AND HINGES BUSHED

WITH GUN-METAL.



No. 9,262.

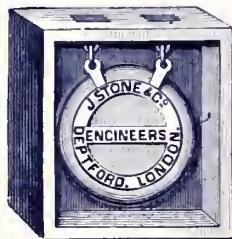
This is a very strong and superior article, and
can be specially recommended.

6	9	10	12	15	18	21	24	30	36	48-in. diam. ⁱⁿ clear.	
Cypher Code ...	14/- pnacogflsh	18/- pnacogflesh	20/- pnacogflight	25/6 pnacogflie	34/- pnacogfltop	45/9 pnacogflot	75/- pnacogfoot	94/3 pnacogfoul	136/9 pnacogfull	177/- pnacogfulty	415/- pnacoggat each.

No. 9,263.—J. STONE & CO.'S

IMPROVED FLAP,

Fitted to stoneware block.



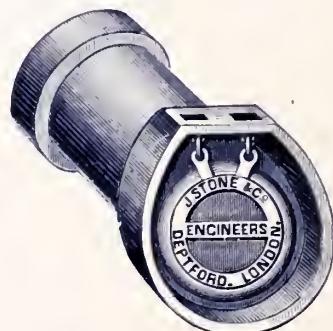
No. 9,263.

With Galvanized Iron Flap	4	6	9	12	15-in. diam. in clear.
Cypher Code ...	4/10 pnacoggate	6/- pnacoggel	9/10 pnacoggem	15/8 pnacoggem	37/6 each. pnacoid

No. 9,264.—J. STONE & CO.'S

IMPROVED FLAP,

Fitted to stoneware Pipe.

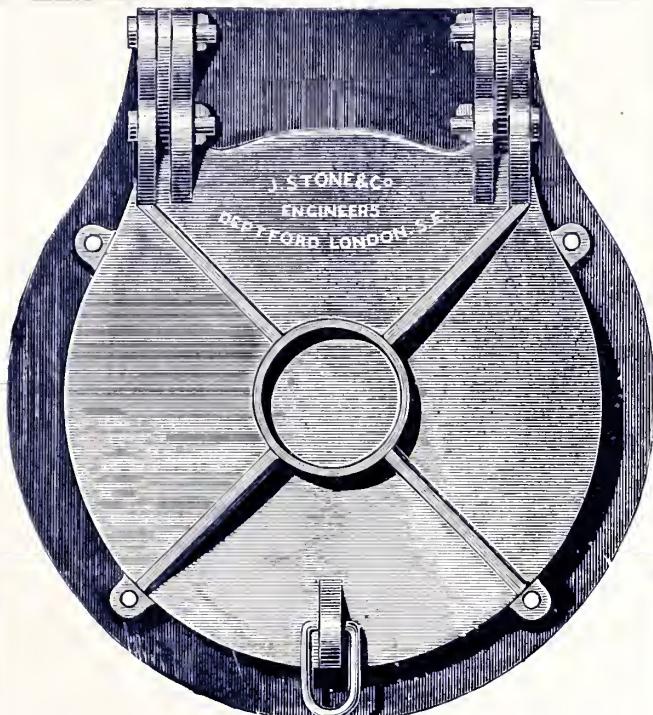


No. 9,264.

With Galvanized Iron Flap	4	6	9	12	15-in. diam. in clear.
Cypher Code ...	4/10 pnacoidef	6/- pnacoidelt	9/10 pnacoidetyl	15/8 pnacoidfull	37/6 each. pnacoidfat

The flaps of either of above can be supplied, if required, of Tinned Copper or of Aluminium, so as to be more sensitive, and to act with a very slight head of water.

PRICES ON APPLICATION.



No. 9,265.

**No. 9,265.—J. STONE & CO.'S
CIRCULAR IRON TIDE FLAP.
FOR LARGE SIZES OF SEWERS.**

		£	s.	d.
1-ft. 9-in. diameter in clear	...	2	10	0
Cypher Code...	pnacoidly			
2-ft. 0-in. "	"	3	17	3
Cypher Code...	pnacofif			
2-ft. 3-in. "	"	4	7	6
Cypher Code...	pnacogig			
2-ft. 6-in. "	"	5	4	3
Cypher Code...	pnacogig			
3-ft. 0-in. "	"	6	13	6
Cypher Code...	pnacoik			
4-ft. 0-in. "	"	15	15	6
Cypher Code...	pnacoik			
4-ft. 6-in. "	"	21	1	6
Cypher Code...	pnacoim			
5-ft. 6-in. "	"	... on application.		
Cypher Code...	pnacoin			

PRICES OF LARGER SIZES ON APPLICATION.

Can be supplied with Gun-metal Faces, and hinges bushed with Gun-metal, if required.

Cypher Code... pnacoip

**No. 9,266.—J. STONE & CO.'S
DOUBLE CIRCULAR TIDE FLAP.**

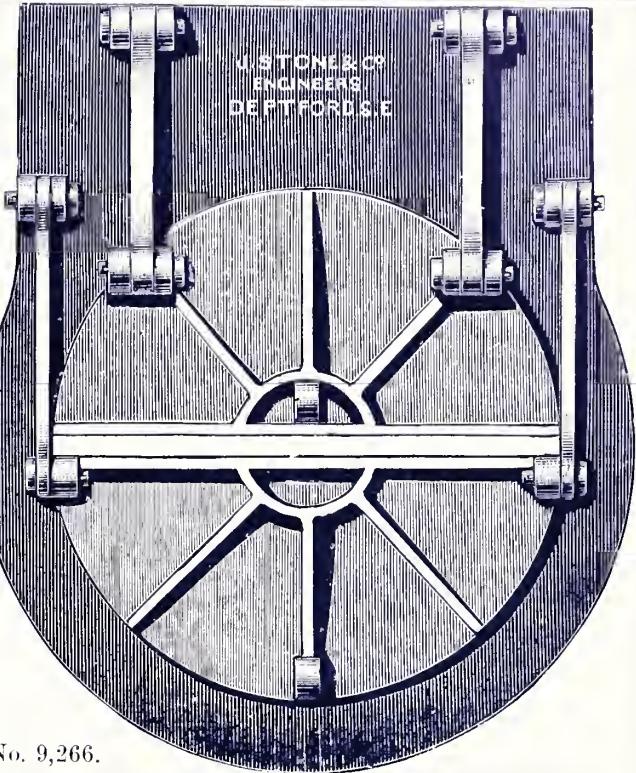
FOR LARGE SIZES OF SEWERS.

Cypher Code... pnacoiq

PRICES ON APPLICATION.

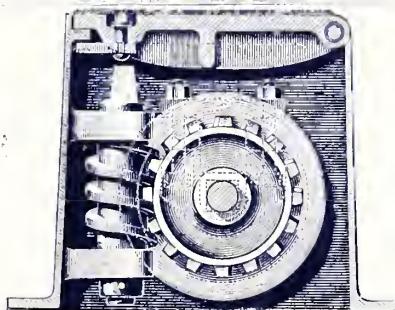
The flaps of either of above can be supplied, if required, of "Tinned Copper" or of "Aluminium," so as to be more sensitive, and to act with a very slight head of water.

PRICES ON APPLICATION.

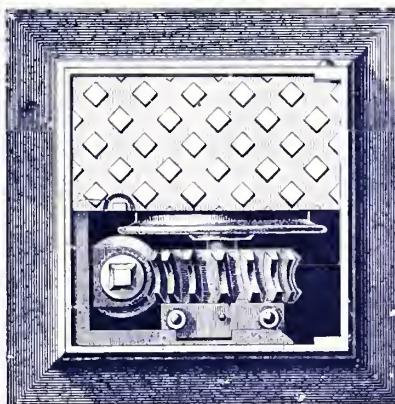


No. 9,266.

For
large
size
Tide
Flaps.



Prices
on
Appli-
cation.



No. 9,267.

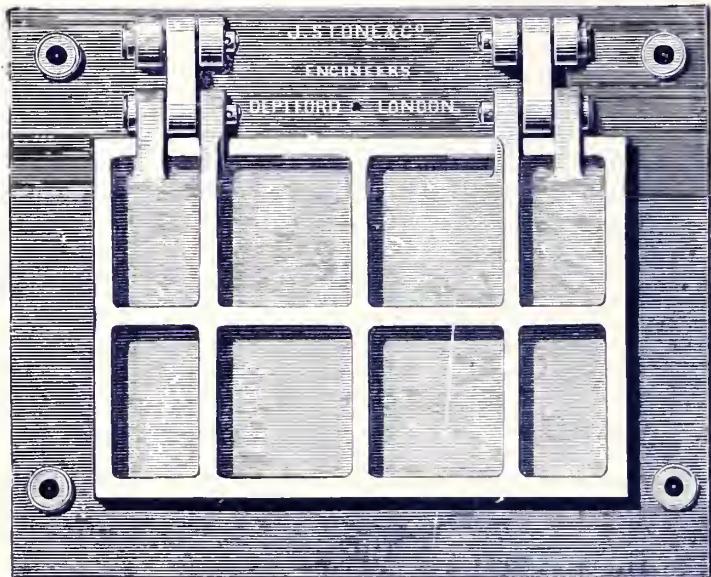
**No. 9,267.—J. STONE & CO.'S
WORM & WHEEL LIFTING GEAR.**

Cypher Code... pnacoil

No. 9,268.—J. STONE & CO.'S

RECTANGULAR TIDE FLAP.

FOR LARGE SIZES OF SEWERS.



No. 9,268.

SIZES USUALLY SUPPLIED.

	Height.	Width.
Cypher Code ..	6-in. ×	1-ft. 0-in.
1-ft. 1-in. ×	1-ft. 5½-in.	
Cypher Code ..	3-in. ×	1-ft. 4-in.
Cypher Code ..	6-in. ×	2-ft. 6-in.
Cypher Code ..	6-in. ×	3-ft. 0-in.
Cypher Code ..	9-in. ×	2-ft. 0-in.
Cypher Code ..	2-ft. 0-in. ×	2-ft. 0-in.
Cypher Code ..	6-in. ×	2-ft. 6-in.
Cypher Code ..	5-in. ×	5-ft. 0-in.
Cypher Code ..	1-in. (oval top) ×	2-ft. 7½-in.
Cypher Code ..	pubig	

Can be supplied of any required size.

PRICES ON APPLICATION.

Can be supplied with Gun-metal Faces, and
hinges bushed with Gun-metal, if required.

Cypher Code .. pubah

No. 9,269.—J. STONE & CO.'S
EGG-SHAPED TIDE FLAP.

FOR LARGE SIZES OF SEWERS.

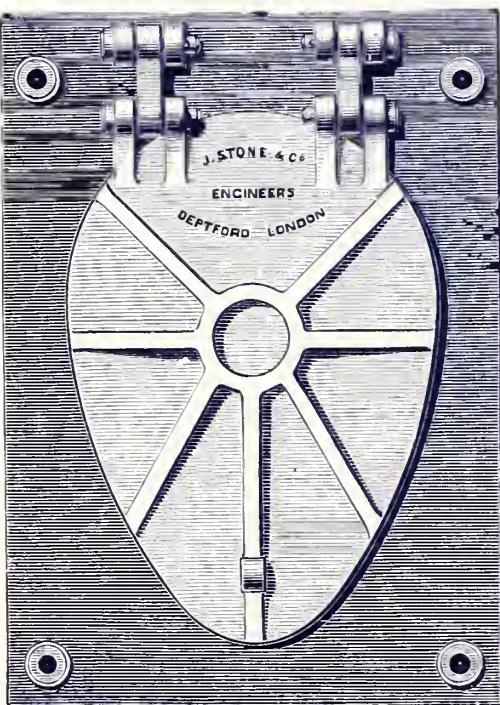
SIZES USUALLY SUPPLIED.

	Height.	Width.
Cypher Code ..	6-in. ×	1-ft. 8-in. clear.
pubaj	3-ft. 0-in. ×	2-ft. 0-in. ,,
pubak	3-ft. 6-in. ×	2-ft. 4-in. ,,
pubal	3-ft. 9-in. ×	2-ft. 6-in. ,,
pubam	3-ft. 9-in. ×	3-ft. 0-in. ,,
pubap	4-ft. 0-in. ×	2-ft. 8-in. ,,
pubar	4-ft. 6-in. ×	3-ft. 0-in. ,,
pubas	3-ft. 0-in. ×	4-ft. 0-in. ,,
pubat	5-in. 3-in. ×	3-ft. 6-in. ,,
pubav	9-ft. 0-in. ×	5-ft. 0-in. ,,
pubaw	7-ft. 4-in. ×	6-ft. 4½-in. ,,
pubaz	7-ft. 10-in. ×	9-ft. 0-in. ,,
pubay		(double doors). having two doors. having nine doors. having frame in halves, with door to each half.

Can be supplied of any required size.

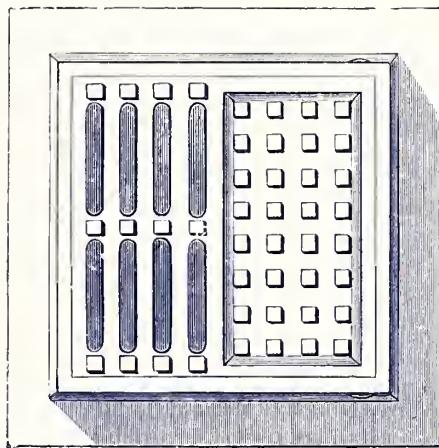
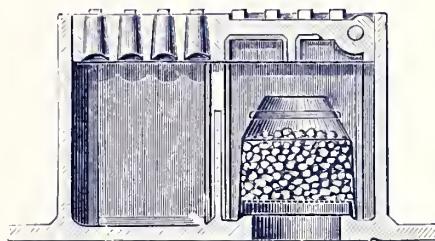
PRICES ON APPLICATION.

The flaps of either of above can be supplied, if required, of "Tinned Copper" or of "Aluminium," so as to be more sensitive, and to act with a very slight head of water.



No. 9,269.

No. 9,270.—J. STONE & CO.'S

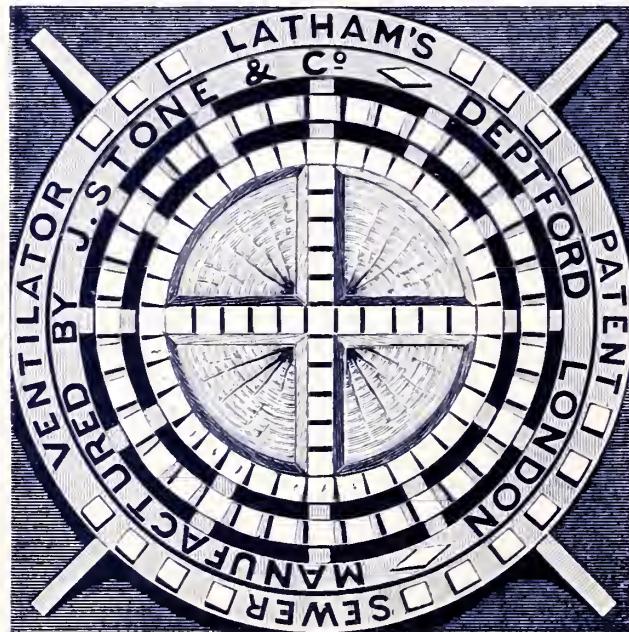
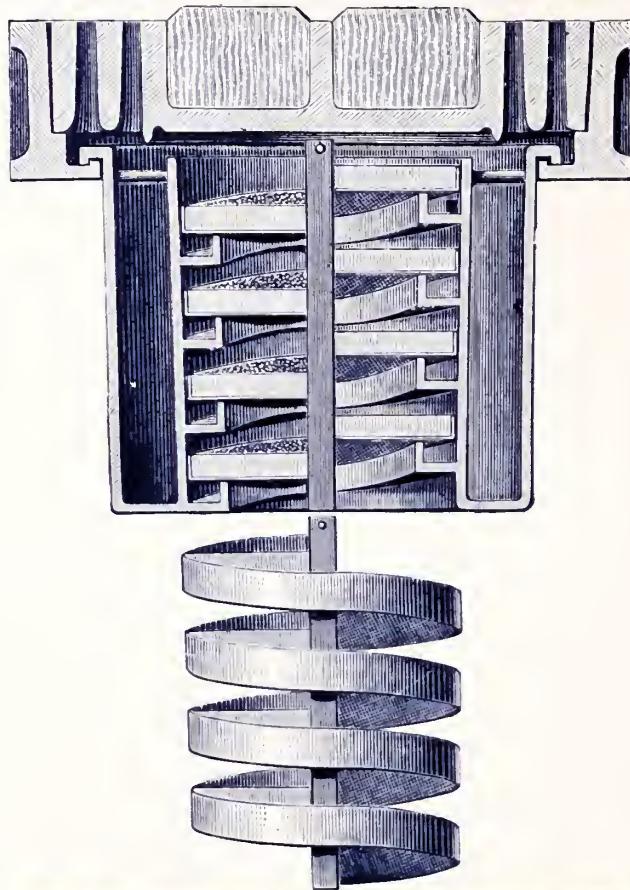
STRONG IMPROVED**PATENT CHARCOAL VENTILATOR.**

No. 9,270.

This is of a very simple and efficient kind. It will be seen by the illustration that the apparatus is divided into two parts by a partition, which, however, does not reach quite to the top; on one side of the partition being the dirt box, and on the other the chamber containing the charcoal tray. The sewer gas passes through the charcoal in the tray, and thence over the top of the partition and through the grating. The water passes through the grating, fills the dirt box, and runs over the top of the partition, down the sides of the charcoal chamber, where it passes, by means of a channel round the bottom of the tray, into the sewer. The bottom of the tray is always trapped with water, so that the whole of the sewer gas must pass through the charcoal, the tray containing which is made with a wire-work bottom, so as to expose the charcoal as much as possible.

Size across top.	Depth.		£	s.	d.
16 $\frac{1}{2}$ × 16 $\frac{1}{2}$ -in.	15 $\frac{3}{8}$ -in.	Complete with galvanized charcoal tray	...	...	1 17 9
		Cypher Code ...			pubba
21 × 21-in.	15 $\frac{3}{8}$ -in.	„ „ „ „	...	...	3 6 0
		Cypher Code ...			pubbabce

No. 9,271.

LATHAM PATENT SPIRAL CHARCOAL VENTILATOR.

No. 9,271.

As supplied to the principal Sewage Works throughout the world.

No. 9,271.

LATHAM PATENT SPIRAL CHARCOAL VENTILATOR.

The only appliance that fulfils all the conditions required for a perfect Sewer Ventilator.

This ventilator is free from the defects inseparable from other charcoal ventilators, and its simplicity of construction and economy of maintenance are points which will further recommend it to public attention. The larger sizes of these ventilators combine in themselves manhole cover, lamphole, and ventilator, while the smaller ones fulfil the two latter offices.

The advantages of this ventilator are :—

- 1st. If the charcoal concretes on the trays, or its pores get filled with dust drawn in from the street, no impediment is offered to ventilation, as in this ventilator there is a free communication between the sewer and the external atmosphere.
- 2nd. That the charcoal is protected from rain or water leaking through the joints of the cover, or falling through the open gratings ; consequently it will retain its efficiency for a long period.
- 3rd. The passage provided for the overflow water from the dirt box is not dependent upon traps or any mechanical device to keep it in order, while, at the same time, the escaping gases cannot possibly pass by the sides of the tray, or in any other way, without being brought into contact with the charcoal.

The action of this ventilator may be explained as follows :—

The dirt box being placed in position, and the spiral tray having been filled with wood charcoal (broken the size of filbert nuts) and screwed into the dirt box, and the cover being placed in position, any mud or dirt passing through the open grating will fall directly into the dirt box, and any water entering at the open grating would first fill the dirt box, but when it had risen as high as the slot communicating with the upper portion of the spiral trough, it would overflow by this channel, passing under the trays of charcoal to the sewer. The gases ascending from the sewer, in obedience to well-known laws, have always a constant tendency to ascend, and as the charcoal of the spiral tray is laid at a considerable angle to the direction of the escaping gases, these gases impinge upon the charcoal at every point of the ascent. Any gases ascending by the spiral trough, provided for conveying away the overflow water, are brought into contact with the charcoal, just as if they ascended by any other part of the apparatus.

In this ventilator, if the trays do not fit tightly at the sides, no escape of gas will arise, as the trough for conveying away the outflow water projects into the ventilator, and any gases escaping by the side of the tray will be thrown against the projecting trough above, and so into the mass of charcoal. The circular form of the passage through the ventilators, moreover, causes the gases to move by a series of deflections, all of which tend to bring them more intimately into contact with the charcoal, and the trays for containing the charcoal are perforated, consequently there is nothing to interfere with the ready absorption of the gas by the charcoal. The larger size of these ventilators combines a manhole cover, lamphole, and ventilator, for, by removing the cover, and withdrawing the charcoal, it forms a lamphole, and by further withdrawing the dirt box, it becomes a manhole. The arrangement that each part is separately moveable has its advantages, as the charcoal and dirt cannot get mixed. The dirt box can be speedily emptied, by removing and capsizing it. The apparatus is easily fixed, and is economical in cost, as a much smaller amount of brickwork is required when it is used in connection with a manhole than is required in some other forms of ventilator. These ventilators are also constructed to be applied in connection with ventilating pipes of house drains, for it should be thoroughly understood that, except in cases where charcoal is used at the top of a ventilating pipe, water is formed by the condensation of the vapour ascending the pipes in cold weather, and which, trickling down the sides of the pipes, will destroy the charcoal ; but in this ventilator a spiral trough carries away the condensed water to the sewer.

Clear Opening.	Diameter over top.	Depth of Frame.	With Circular Frame having square flange at bottom.
22 inches.	28 $\frac{3}{8}$ inches.	6 $\frac{1}{2}$ inches. Cypher Code ..	£ s. d. 4 17 0 pubbade
20 "	25 $\frac{3}{4}$ "	6 $\frac{1}{2}$ " Cypher Code ..	4 1 6 pubbage
18 "	23 $\frac{1}{2}$ "	6 " Cypher Code ..	3 14 9 pubbaje
15 "	20 "	5 $\frac{3}{8}$ " Cypher Code ..	3 3 3 pubbake
12 "	16 $\frac{1}{2}$ "	4 $\frac{1}{2}$ " Cypher Code ..	2 1 9 pubbame
10 "	14 $\frac{5}{8}$ "	4 " Cypher Code ..	1 13 3 pubbatoe

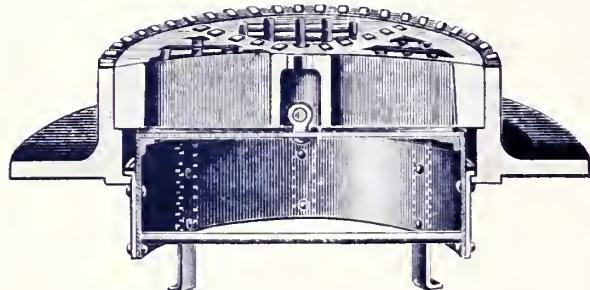
Can be supplied with square frames if required.

Complete illustrated lists of above, showing mode of fixing, and all particulars, to be obtained upon application.

J. STONE & CO.'S
LATEST IMPROVED PATENT "REVERSIBLE"
VENTILATING OR CLOSED MANHOLE AND LAMPHOLE COVERS,
WITH DIRT BOXES.

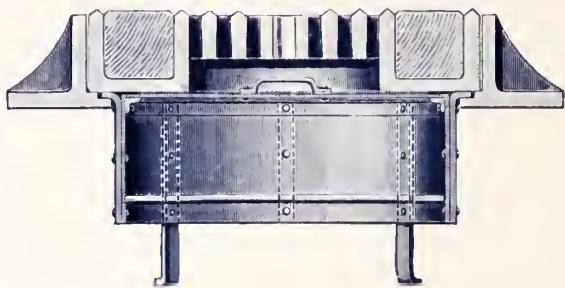
Arranged so that by simply reversing the position of Dirt Box the cover can be changed at will, from ventilating to closed, or *vice versa*, and this *without* the addition of any intermediate plate or grating.

No. 9,272. OF IRON.

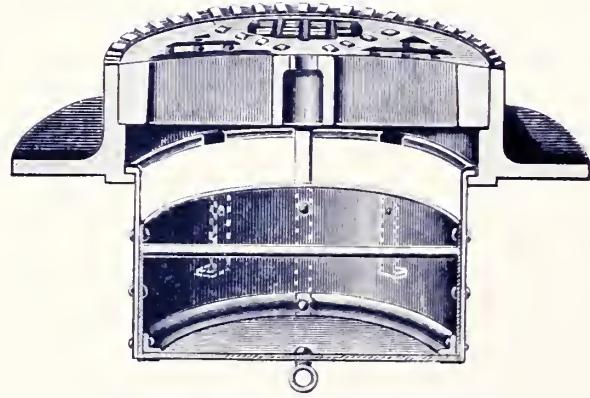


No. 9,272. VENTILATOR CLOSED.

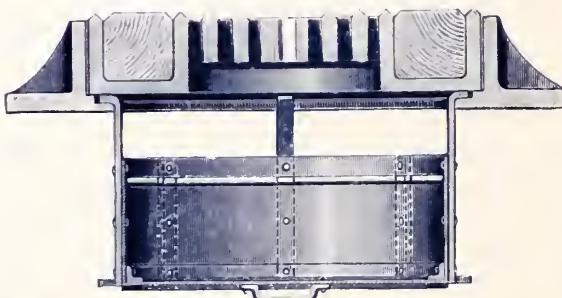
No. 9,273. HEAVY PATTERN, WITH WOOD BLOCKS.



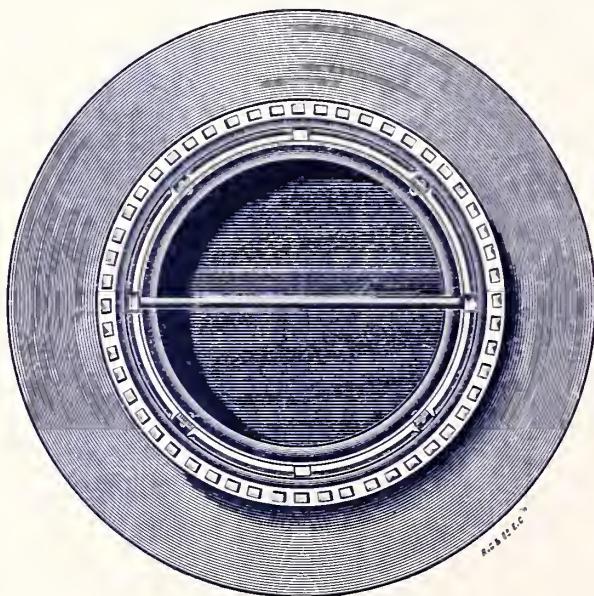
No. 9,273. VENTILATOR CLOSED.



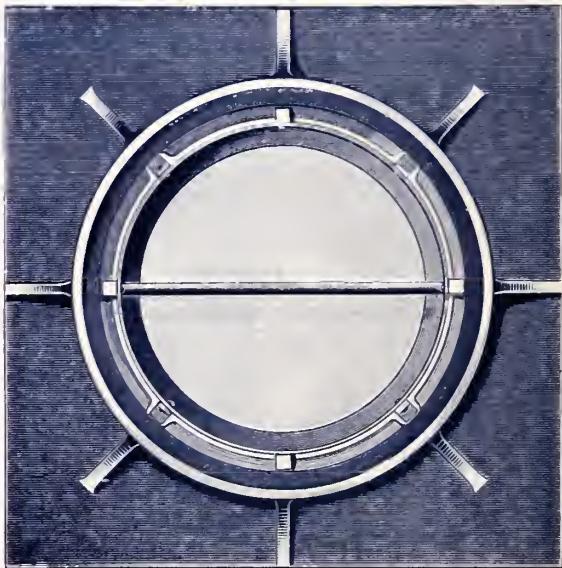
No. 9,272. VENTILATOR OPEN.



No. 9,273. VENTILATOR OPEN.



No. 9,272.



No. 9,273.

FULL PARTICULARS AND PRICES ON OPPOSITE PAGE.

J. STONE & CO.'S

LATEST IMPROVED PATENT "REVERSIBLE"

VENTILATING OR CLOSED

MANHOLE AND LAMPHOLE COVERS,

WITH DIRT BOXES.

Arranged so that by simply reversing the position of dirt box, the cover can be changed at will from ventilating to closed, or *vice versa*, and this *without* the addition of any intermediate plate or grating.

 **H**IS Cover is introduced to Engineers to enable them to have control over the ventilation of Manhole and Lamphole Covers, so that in the event of any of these Ventilators becoming objectionable, through the amount of sewer gas passing up, they can be at once closed up, and the nuisance abated.

As the Local Government Board, in their Regulations, compel Engineers to fix Manhole Covers and Ventilators at every bend in the line of Sewers, the result is that Manhole Covers are fixed in narrow streets, main thoroughfares, and other important places, where the gas from Sewers is most especially noticeable and objectionable. By using these Covers, Engineers can shut them at will, thus forcing the gas to escape at some more open and less noticeable point.

It can be used either as a Close Manhole Cover, Ventilating Manhole Cover, Air Inlet or Air Outlet, as required. This Cover will also be found very useful when used in connection with Air Shafts.

PRICES.—No. 9,272.

		FOR MANHOLE.		FOR LAMPHOLE.	
Diameter across top ...	...	20	22	14 inches	
Do. of opening ...	...	16	18	10 "	
Depth of Frame ...	...	7½	6½	6 "	
		£ s. d.	£ s. d.	£ s. d.	
With galvanized wrought iron dirt box ...	Cypher Code ...	2 13 9 pubbase	3 7 6 pubbase	1 18 3 pubbase	

PRICES.—Heavy Patterns with Wood Blocks, No. 9,273.

		FOR MANHOLE.		FOR LAMPHOLE.	
Diameter across top ...	...	24	19½ inches.		
Do. of opening ...	...	17¾	13¾ "		
Depth of Frame ...	...	5½	5½ "		
		£ s. d.	£ s. d.	£ s. d.	
With galvanized wrought iron dirt box ...	Cypher Code ...	3 15 6 pubbase	2 16 6 pubbase		

Coated with Dr. Angus Smith's Solution, unless otherwise ordered.

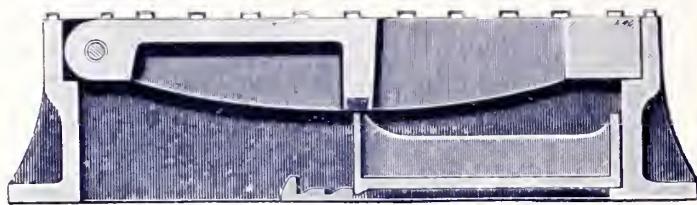
Engineers and Surveyors desiring these Covers to be used in their Contracts are requested to specify—"J. STONE & CO.'S LATEST IMPROVED PATENT 'REVERSIBLE' MANHOLE LAMPHOLE COVERS, Nos. 9,272 or 9,273 IN THEIR CATALOGUE (SECTION E), TO BE SUPPLIED COMPLETE WITH GALVANIZED WROUGHT IRON DIRT BOXES."—(Stating sizes of clear openings required, and P/c as mentioned above.)

No. 9,274.

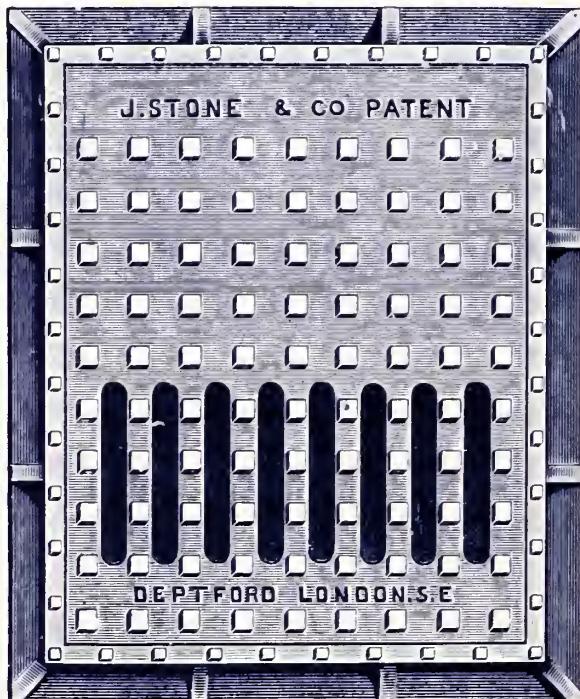
LATEST IMPROVED PATENT "INTERCHANGEABLE" VENTILATING OR CLOSED MANHOLE AND LAMPHOLE COVERS.

RECTANGULAR PATTERN.

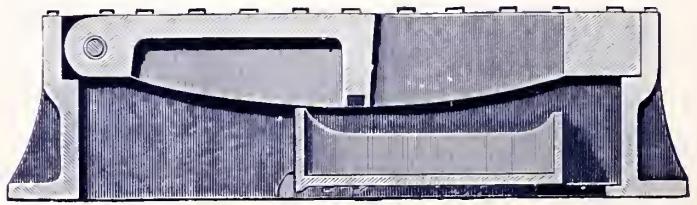
WITH SLIDING DIRT BOX, by which the opening for ventilation can be
regulated to any required amount or closed altogether.



No. 9,274. VENTILATOR CLOSED.



No. 9,274.



No. 9,274. VENTILATOR OPEN.

FOR PARTICULARS AND PRICES SEE OPPOSITE PAGE.

No. 9,274.

LATEST IMPROVED PATENT "INTERCHANGEABLE" VENTILATING OR CLOSED MANHOLE AND LAMPHOLE COVERS.

RECTANGULAR PATTERN.



WITH SLIDING DIRT BOX, by which the opening for ventilation can be
regulated to any required amount or closed altogether.



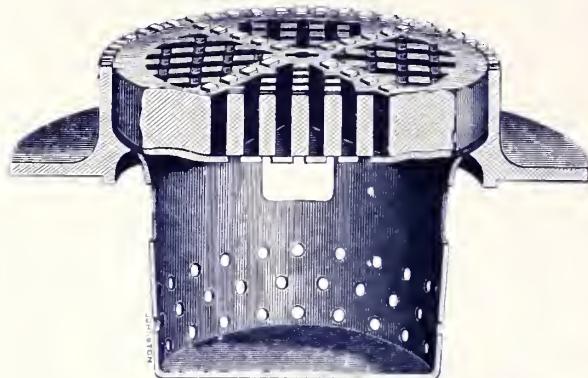
PRICES.

	For MANHOLE.	For LAMPHOLE.
Size across top	25-in. × 20½-in.	14-in. × 11-in.
Size in clear opening	22 in. × 17½-in.	10½-in. × 8-in.
Depth	7½-in.	7½-in.
Including dirt box	£2. 17s. 6d. Cypher Code pubbuwe	£1. 6s. 0d. Cypher Code pubbaye

Engineers and Surveyors desiring these Covers to be used in their Contracts, are requested to specify—"LATEST IMPROVED PATENT 'INTERCHANGEABLE' MANHOLE LAMPHOLE COVERS, No. 9,274 IN J. STONE & CO.'S CATALOGUE (SECTION E), TO BE SUPPLIED COMPLETE WITH DIRT BOXES."—
(Stating sizes of clear openings required, and P/c as mentioned above.)

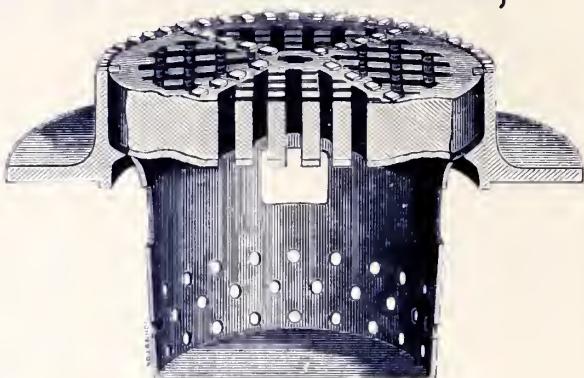
PATENT "INTERCHANGEABLE"

VENTILATING OR CLOSED MANHOLE AND LAMPHOLE COVERS,



VENTILATOR CLOSED

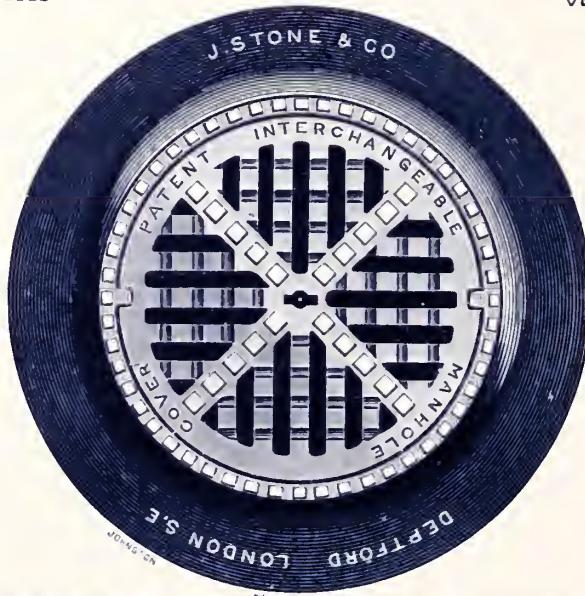
Fig. A.



VENTILATOR OPEN

Fig. B.

Can be changed at will
from Ventilating to Closed,
or *vice versa*, by
simply shifting position
of Cover.

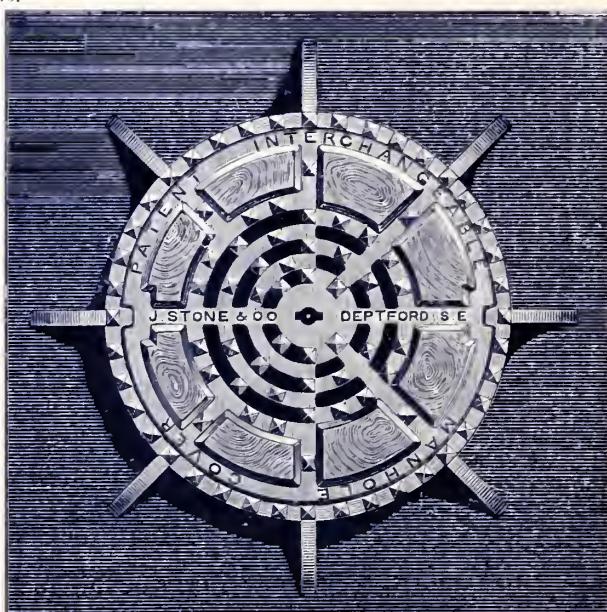


No. 9,275.

For Particulars and
Prices,
see opposite page.



No. 9,276. Heavy Pattern, with 4 Wood Blocks.



No. 9,277. Heavy Pattern, with 8 Wood Blocks.

J. STONE & CO.'S
PATENT "INTERCHANGEABLE"
VENTILATING OR CLOSED MANHOLE AND
LAMPHOLE COVERS.

Can be changed at will from Ventilating to Closed, or *vice versa*, by simply shifting position of Cover.

This Cover is made with a double arrangement of gratings, the under one being of galvanized wrought iron, with the slots or spaces arranged so that when the upper grating is in the position shown in Fig. A, the Ventilator is CLOSED, but by lifting off the upper grating and turning it half round and then replacing it in frame, the Ventilator will be OPEN, as shown in Fig. B.

This Cover is introduced to Engineers to enable them to have control over the ventilation of Manhole and Lamphole Covers, so that in the event of any of these Ventilators becoming objectionable, through the amount of sewer gas passing up, they can be at once closed up, and the nuisance abated.

As the Local Government Board, in their Regulations, compel Engineers to fix Manhole Covers and Ventilators at every bend in the line of Sewers, the result is that Manhole Covers are fixed in narrow streets, main thoroughfares and other important places, where the gas from Sewers is most especially noticeable and objectionable. By using these Covers, Engineers can shift them at will, thus forcing the gas to escape at some more open and less noticeable point.

It can be used either as a Close Manhole Cover, Ventilating Manhole Cover, Air Inlet, or Air Outlet, as required. This Cover will also be found very useful when used in connection with Air Shafts.

PRICES.—No. 9,275.

	FOR MANHOLE.			FOR LAMPHOLE.
Diameter across top	20	22		14 inches.
Do. of opening... ...	16	18		10 ,,
Depth of Frame	7½	6½		6 ,,
	£ s. d.	£ s. d.	£ s. d.	
Without dirt box	2 6 9	2 15 9	1 8 3	
With cast iron dirt box	2 14 9	3 5 9	1 15 3	
With galvanized wrought iron dirt box	2 17 9	3 7 9	1 16 0	
	Cypher Code ...	pubcab	pubcabbag	pubcababl
		pubcabtly	pubcabgal	pubcablat
		pubcablent	pubcabil	pubcable

PRICES.—With Wood Blocks as Nos. 9,276 and 9,277.

	FOR MANHOLE.		FOR LAMPHOLE.	
Diameter across top	No. 9,276.	No. 9,277.	No. 9,276.	No. 9,277.
Do. of opening... ...	25¾	24	20	19½ inches.
Depth of Frame	6½	5½	5½	5½ ,,
	£ s. d.	£ s. d.	£ s. d.	£ s. d.
Without dirt box	3 9 6	3 9 0	2 7 3	2 7 9
With cast iron dirt box	—	4 0 9	2 16 0	2 18 0
With galvanized wrought iron dirt box	4 3 9	4 1 0	2 16 6	2 17 0
	Cypher Code ...	pubcabad	pubcabag	pubcabak
		pubcableg	pubcablm	pubcables
		pubcablet	pubcabley	pubcabca
		pubcabcg	pubcabek	pubcabel

Coated with Dr. Angus Smith's Solution, unless otherwise ordered.

Engineers and Surveyors desiring these Covers to be used in their Contracts are requested to specify—"J. STONE & CO.'S PATENT 'INTERCHANGEABLE' MANHOLE COVERS, Nos. 9,275, 9,276, or 9,277 IN THEIR CATALOGUE (SECTION E), TO BE SUPPLIED COMPLETE WITH CAST IRON DIRT BOXES."—(Stating sizes of clear openings required, and P/c as mentioned above.)

No. 9,278.—J. STONE & CO.'S

PATENT "INTERCHANGEABLE"

VENTILATING OR CLOSED MANHOLE COVER.



Can be changed at will from Ventilating to Closed, or *vice versa*, by simply shifting position of Cover, as fully described on pages 54 and 55.



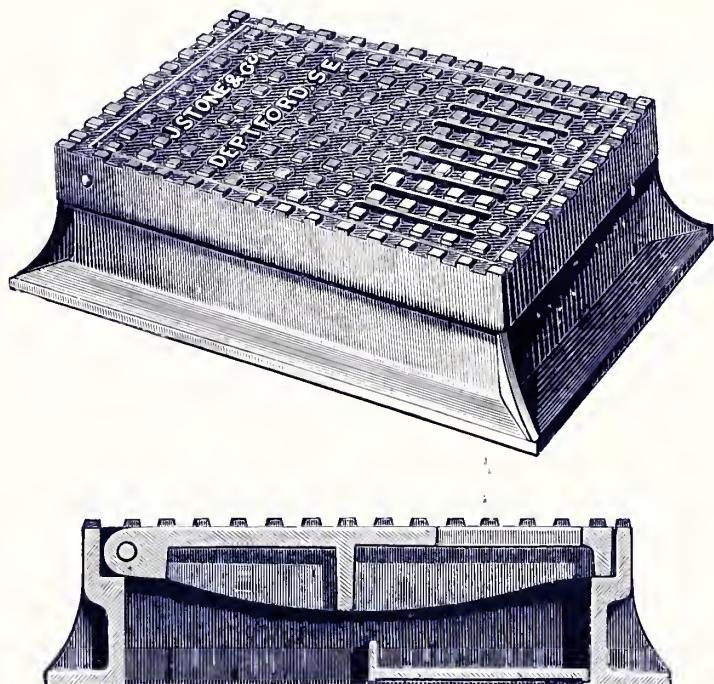
No. 9,278.

Diameter across top, 24-in., diameter of opening $17\frac{3}{4}$ -in., depth of frame $6\frac{1}{4}$ -in.

	£ s. d.
Price <i>without</i> dirt box	3 5 0 pubcam
„ <i>with wrought iron</i> dirt box	3 13 9 pubcam
„ <i>with galvanized wrought iron</i> dirt box ...	3 16 3 pubcam

No. 9,279.—J. STONE & CO.'S

EXTRA STRONG HINGED MANHOLE COVER, WITH OR WITHOUT VENTILATING OPENINGS.



No. 9,279 (Section).

The illustration shews it fitted with ventilating openings in cover, with cast iron dirt box in the body beneath, arranged so that there is no projection below the base. The dirt box can be lifted out when necessary from the frame, but being so close to the surface can easily be cleaned out without removal, thus saving both time and labour.

PRICES.

No. 9,279 Extra strong Manhole Cover for roadway
with ventilating openings... }

Size of Opening.

Depth of Frame.

£	s.	d.
2	0	0
pubacar		

No. 9,280 Do. *without* ventilating openings }

21½-in. × 17½-in.

7½-in.

2	3	6
pubacat		

EXTRAS.

If No. 9,279 fitted with dirt box

—

0	2	9
pubacaw		

If either Nos. 9,279 or 9,280 fitted with lock ...

—

0	4	0
pubacay		

Key for lock

—

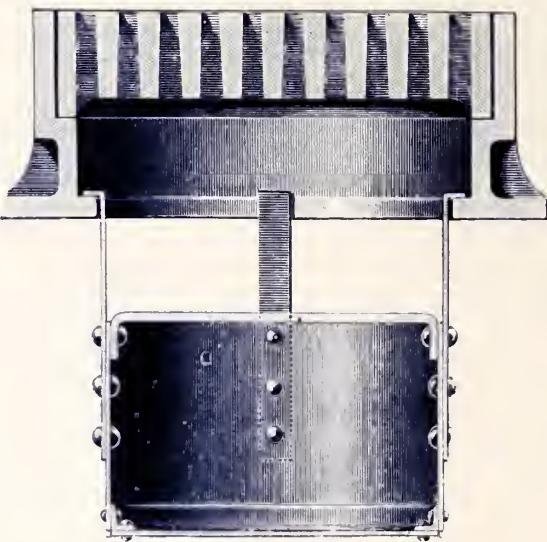
0	1	0
pubcae		

Cypher Code ...

No. 9,281.—**London County Council Roadway Manhole Cover.**
EXTRA STRONG HEAVY PATTERN.



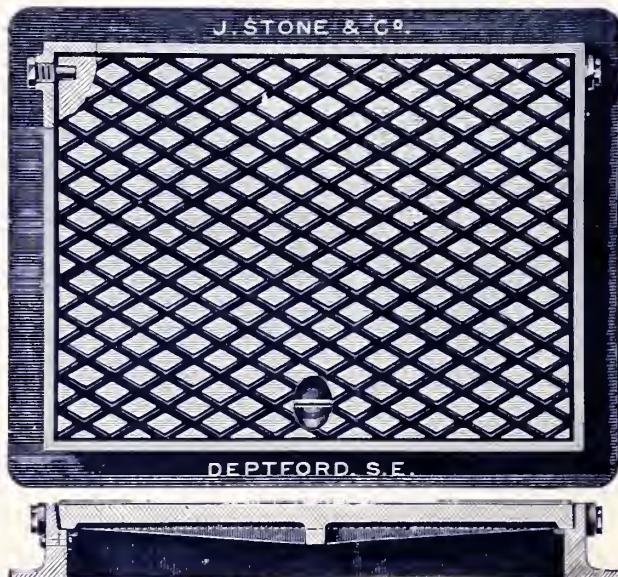
No. 9,281.



No. 9,281 (Section).

Size of Base, 2-ft. 8-in. square.	Clear Opening, 1-ft. 10-in. diameter.	Depth 1 ft. 0-in.
With galvanized wrought iron dirt box ...	... ...	£5. 13s. 0d. Cypher Code pubead

No. 9,282.—**J. STONE & CO.'S HINGED MANHOLE COVER.**



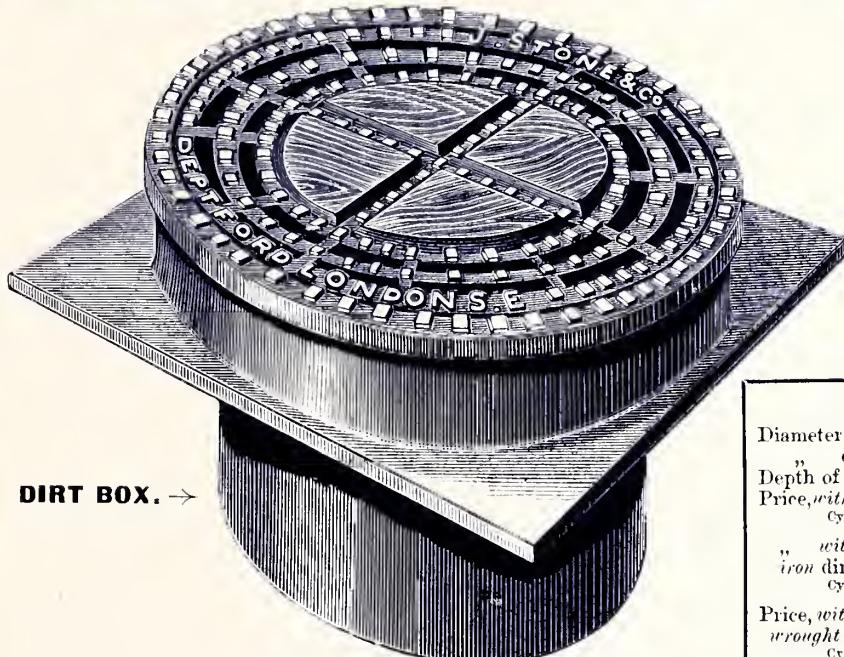
No. 9,282.

(Section.)

Fitted with gun-metal hinges to prevent corrosion.

Outside top, 22 $\frac{3}{4}$ -in. × 17-in.	Clear opening, 21-in. × 15 $\frac{1}{4}$ -in.	£ s. d.
Depth of frame, 3-in. ...	... ... ... ... ...	1 3 6
If with gun-metal lock ...	... ... ... ... ...	1 9 6 pubead
If galvanized ...	... ... ... ... ...	0 17 6 pubeadfy

No. 9,283.—J. STONE & CO.'S
STRONG COMBINED
VENTILATING MANHOLE AND LAMPHOLE COVERS.



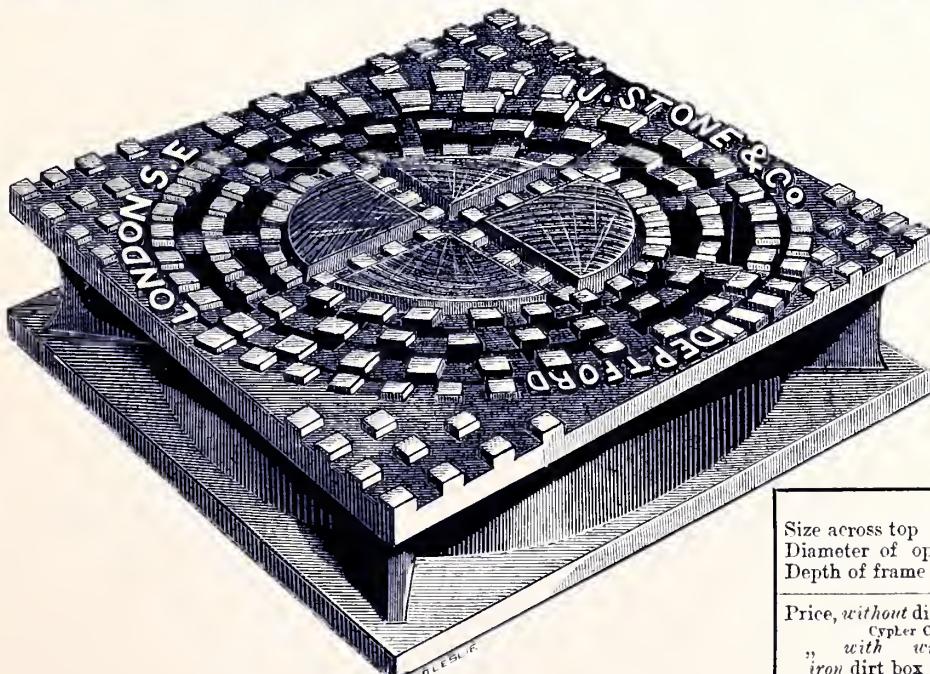
DIRT BOX. →

No. 9,283.

The Gratings fitted with
 Elm Blocks.

	FOR LAMPHOLES.			FOR MANHOLES.		
Diameter across top	14½	16½	21	23½	26	28½-in.
" of opening	10	12	15	18	20	22-in.
Depth of frame	4	4½	6	6	6½	6½-in.
Price, without dirt box	14/-	17½/-	29/3	35/3	41/9	52/3 ea.
Cypher Code ...	pubcaef	pubcafa	pubcaefgt	pubcaefham	pubcafgt	pubcaefhad
" with wrought iron dirt box	19 6	23 6	36 6	43/6	52/3	64/3 ea.
Cypher Code ...	pubcaefhead	pubcaeflt	pubcaefhl	pubcaefldy	pubcaefho	pubcaefhome
Price, with galvanized wrought iron dirt box	20/6	24 9	38/3	45/9	55/3	68/3 ea.
Cypher Code ...	pubcaefhoney	pubcaefhost	pubcaefhty	pubcaefho	pubcaefhot	pubcaefhud

No. 9,284.—J. STONE & CO.'S
COMBINED
VENTILATING MANHOLE AND LAMPHOLE COVERS.



No. 9,284.

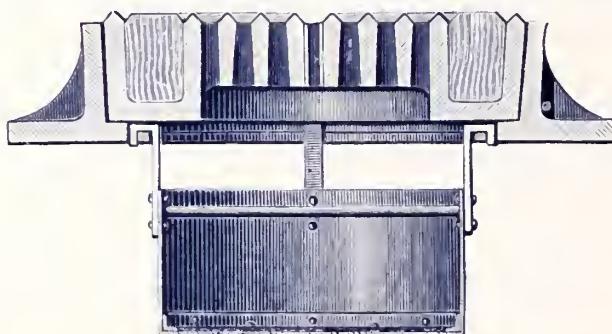
With Square Tops,
 the Gratings fitted
 with Elm Blocks.

	FOR MANHOLE.	FOR LAMPHOLE.
Size across top ..	23½ inches.	16½ inches.
Diameter of opening ..	18 "	12 "
Depth of frame ...	6 "	4½ "
Price, without dirt box	37/6 each	20/6 each.
Cypher Code ...	pubcaefham	pubcaefht
" with wrought iron dirt box	45/9 "	26/3 "
Cypher Code ...	pubcaefla	pubcaeflt
Price, with galvanized wrought iron dirt box	48/-	27/6
Cypher Code ...	pubcaefay	pubcaefte

No. 9,285.

EXTRA STRONG COMBINED**VENTILATING MANHOLE AND LAMPHOLE COVERS
(W. H. WHITE'S IMPROVED).****THE GRATINGS FITTED WITH ELM BLOCKS.**

This arrangement, designed by Mr. W. H. White, C.E., of Oxford, is exceedingly good; it is of extra strong description, and can be highly recommended.

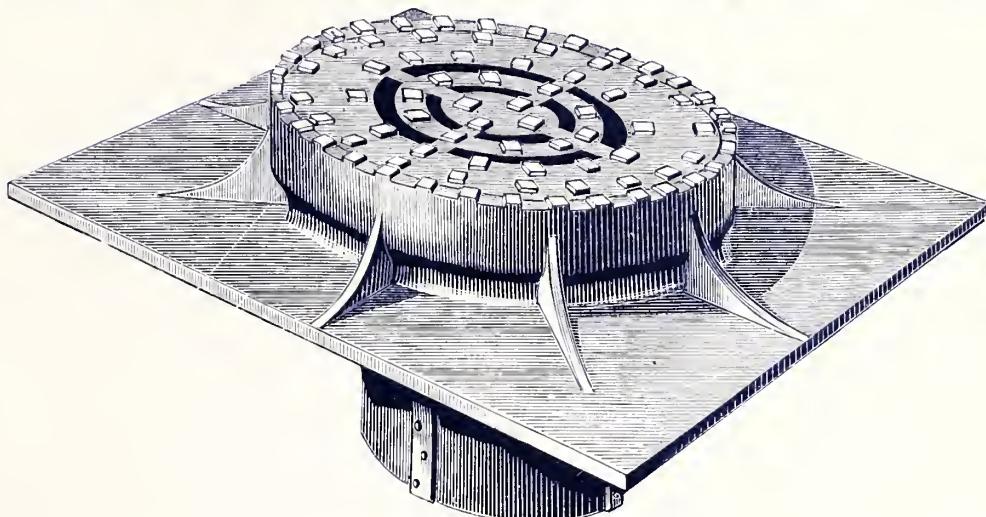


No. 9,285.

	FOR MANHOLE.				FOR LAMPHOLE.	
Diameter across top	26 inches.	20 inches.
„ of opening	20 $\frac{1}{4}$ „	11 „
Depth of frame	6 $\frac{1}{4}$ „	6 $\frac{7}{8}$ „
Price, without dirt box	Cypher Code	61/3 pubcastm	39/9 pubcastm
„ with wrought iron dirt box	Cypher Code	7 1/3 pubcastp	45/3 pubcastp
„ with galvanized wrought iron dirt box	Cypher Code	74/3 pubcastt	16 3 pubcasg

No. 9,286.—J. STONE & CO.'S

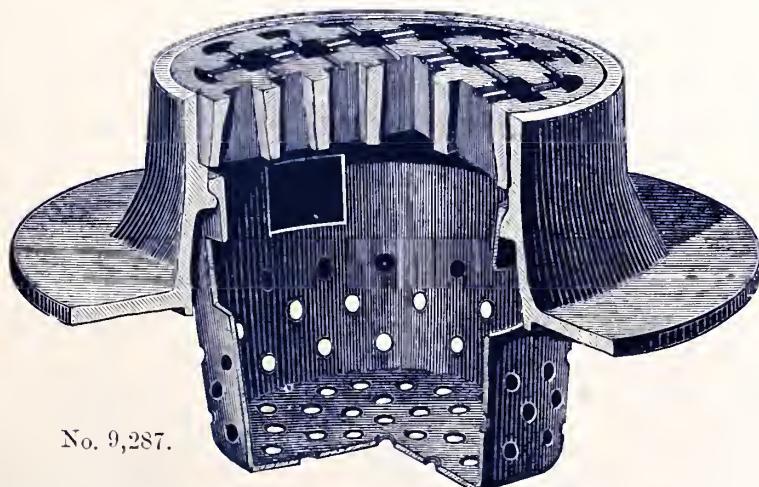
**EXTRA STRONG COMBINED
VENTILATING MANHOLE AND LAMPHOLE COVERS.**



No. 9,286.

	FOR MANHOLE.	FOR LAMPHOLE.
Diameter across top ...	24 inches.	19½ inches.
" of opening ...	$17\frac{3}{4}$ "	$13\frac{3}{4}$ "
Depth of frame ...	$6\frac{1}{4}$ "	$6\frac{1}{4}$ "
Price, <i>without</i> dirt box ...	$42/3$	$33/6$
" <i>with wrought iron</i> dirt box ...	<i>Cypher Code...</i> $50/6$	<i>pubcaeg</i> $39/3$
" <i>with galvanized wrought iron</i> dirt box	<i>Cypher Code...</i> $52/9$	<i>pubcaed</i> $40/6$

No. 9,287.—BAILEY-DENTON
STRONG COMBINED
VENTILATING MANHOLE AND LAMPHOLE COVERS,
WITH IRON DIRT BOXES.

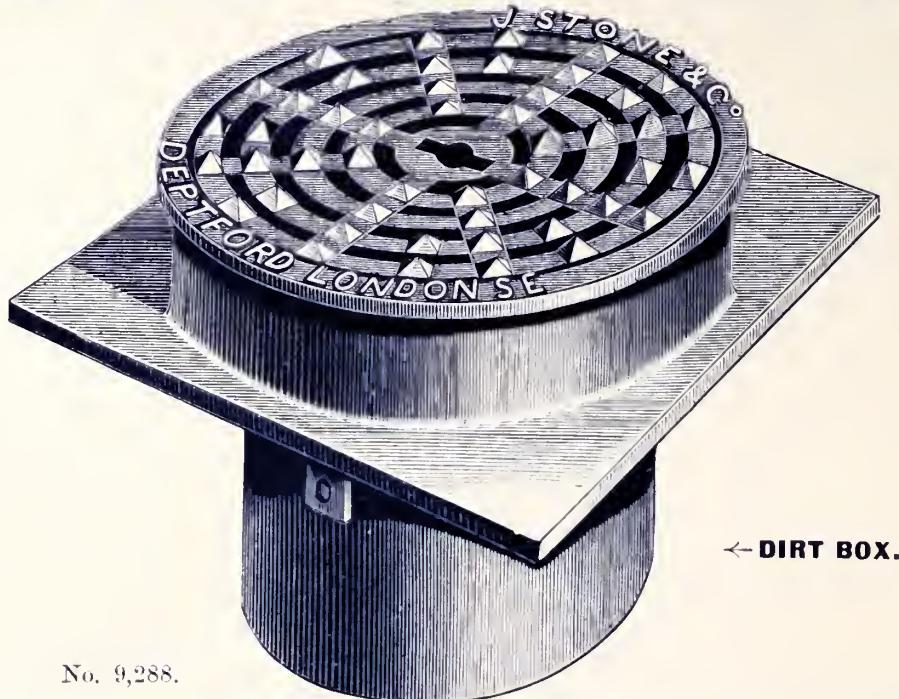


No. 9,287.

	FOR MANHOLE.	FOR LAMPHOLE.
Diameter across top ...	$25\frac{1}{4}$ in. 20-in.	14-in.
" of opening ...	20-in.	16-in.
Depth of frame ...	$7\frac{3}{4}$ in.	$7\frac{1}{2}$ in.
Price, <i>without</i> dirt box ...	$47/-$	$28/-$
" <i>with cast iron</i> dirt box ...	<i>Cypher Code...</i> —	<i>pubcahad</i> $35/6$
" <i>with galvanized cast iron</i> dirt box ...	<i>Cypher Code...</i> —	<i>pubcahag</i> $41/-$
" <i>with wrought iron</i> dirt box ...	<i>Cypher Code...</i> —	<i>pubcaham</i> $57/6$
" <i>with galvanized wrought iron</i> dirt box ...	<i>Cypher Code...</i> —	<i>pubcaalam</i> $60/6$

No. 9,288.—J. STONE & CO.'S

STRONG VENTILATING LAMPHOLE COVER.

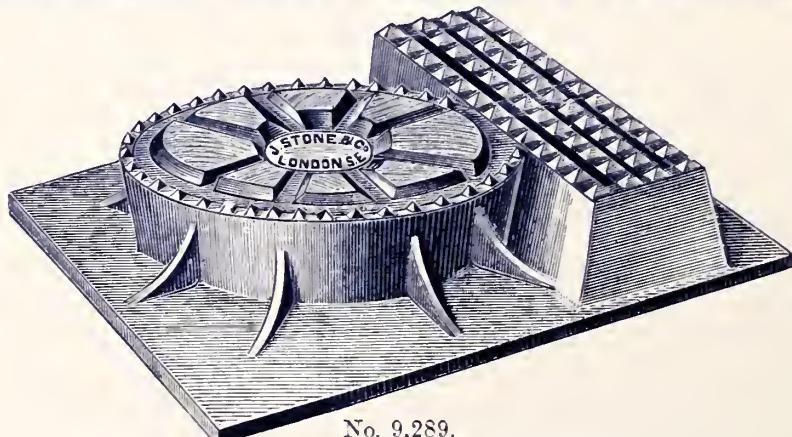


No. 9,288.

Diameter across top	...	...	...	...	...	...	...	...	16 inches
" of opening	...	...	...	...	...	...	...	...	11½ "
Depth of frame	...	...	...	...	...	...	...	...	5½ "
Price, without dirt box	...	...	...	...	...	...	...	...	17/-
" with wrought-iron dirt box	...	...	...	...	...	...	Cypher Code	...	pubcamen
" with galvanized wrought iron dirt box	...	...	...	...	...	...	Cypher Code	...	pubcament
							Cypher Code	...	24 6
							Cypher Code	...	pubcamit

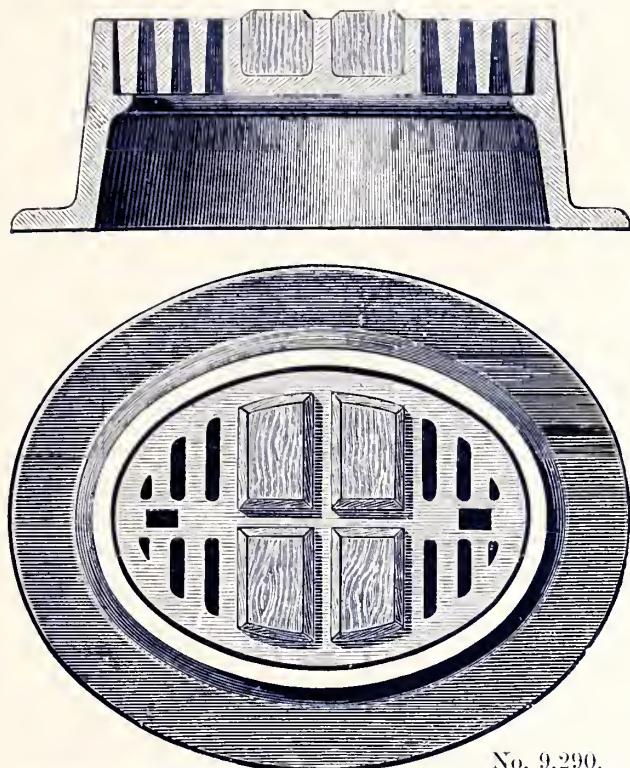
No. 9,289.—J. STONE & CO.'S

STRONG COMBINED LAMPHOLE & VENTILATING COVER.



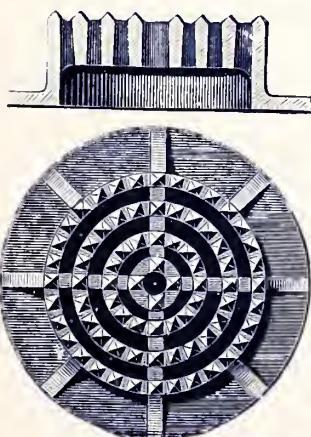
No. 9,289.

Diameter across top, 17½-in.; diameter of opening, 13-in.: size of base, 27-in. x 20-in.; depth of frame, 5-in. } Price 31/3 each.



No. 9,290.

No. 9,292.—J. STONE & CO.'S
CIRCULAR VENTILATING GRATING.



No. 9,292.

Diameter across top, 14 inches.
Depth of Frame, 6 inches.

11—each.

Cypher Code ... pubemut

No. 9,290.—J STONE & CO.'S
STRONG OVAL MANHOLE COVER,

With Ventilating Openings, the Grating fitted with Elm Blocks.

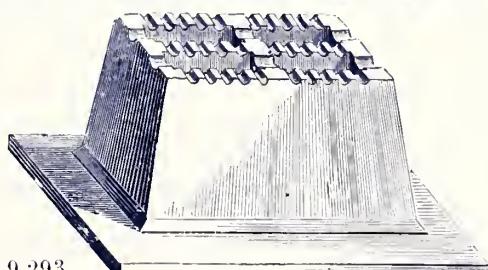
	Size across top, inches.	Size of opening, inches.	Depth of frame.	£ s. d.
With oval base, 22 X 17	18½ X 13½	10-in.	1 15 0	
Cypher Code ...			pubcamo	
" " 28 X 23	24 X 19	12-in.	2 17 0	
Cypher Code ...			pubcamoc	
With square base, 28 X 23	21¾ X 17¼	12-in.	3 4 0	
Cypher Code ...			pubcamode	

No. 9,291.—Ditto,

Without Ventilating Openings, but with Elm Blocks.

	Size across top, inches.	Size of opening, inches.	Depth of frame.	£ s. d.
With oval base, 22 X 17	18½ X 13½	10-in.	1 16 6	
Cypher Code ...			pubcamoge	
" " 28 X 23	24 X 19	12-in.	2 19 0	
Cypher Code ...			pubcamoh	
With square base, 28 X 23	21¾ X 17¼	12-in.	3 6 0	
Cypher Code ...			pubcamont	

No. 9,293.—J. STONE & CO.'S
STRONG RECTANGULAR VENTILATING GRATING.



No. 9,293.

Size outside top.	Depth.	£ s. d.
12-in. X 12-in.	6 inches	0 10 0
Cypher Code ...		public
15-in. X 5¾-in.	11 inches	0 13 6
Cypher Code ...		publicchapel
15-in. X 6-in.	6¾ inches	0 10 0
Cypher Code ...		publichearted
15-in. X 7-in.	7 inches	1 1 6
Cypher Code ...		publichouse
18-in. X 6-in. heavy	12½ inches	1 1 6
Cypher Code ...		publiclaw
18-in. X 6-in.	12½ inches	0 14 6
Cypher Code ...		publicminded
19½-in. X 6½-in.	15 inches	1 5 9
Cypher Code ...		publicator

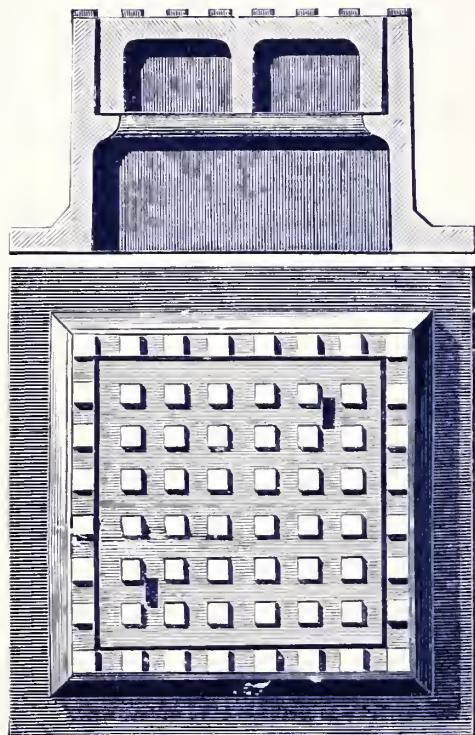
No. 9,294—Ditto, WITH HINGED GRATING.

Size outside top.	Depth.	£ s. d.
17-in. X 9¾-in.	6 inches	0 19 9

No. 9,295—Ditto, WITH MOVEABLE GRATING.

Size outside top.	Depth.	£ s. d.
17-in. X 17-in.	12 inches	2 6 3
Cypher Code ...		publicspirited
16-in. X 11¾-in.	7½ inches	0 18 9
Cypher Code ...		publicworks

No. 9,296.—J. STONE & CO.'S

SQUARE MANHOLE COVER.

Size across top.	Size of opening.	Depth.	£	s.	d.
16 $\frac{3}{4}$ -in. × 16 $\frac{3}{4}$ -in. ...	12 $\frac{3}{4}$ -in.	7-in.	1	9	0
17-in. × 17-in. ...	12-in.	12-in. Cypher Code	2	1	6
22-in. × 22-in. ...	17-in.	12-in. Cypher Code	2	10	6

Cypher Code
publican
publicate
publication

No. 9,297.—Ditto,

With Ventilating Openings.

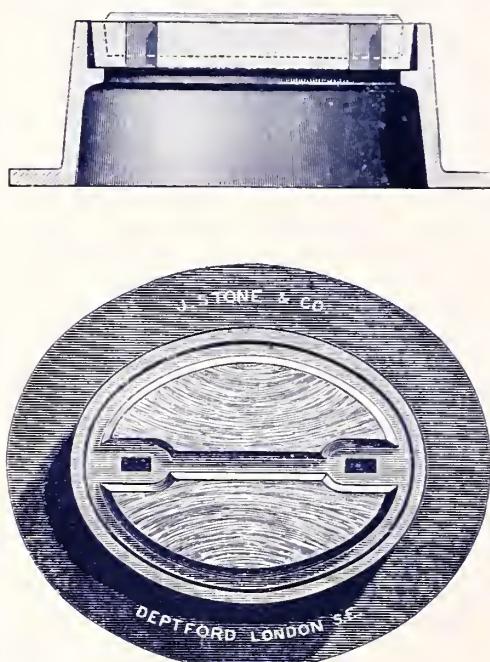
Size across top.	Size of opening.	Depth.	£	s.	d.
16 $\frac{3}{4}$ -in. × 16 $\frac{3}{4}$ -in. ...	12 $\frac{3}{4}$ -in.	7-in.	1	10	0
17-in. × 17-in. ...	12-in.	12-in. Cypher Code	2	6	3
22-in. × 22-in. ...	17-in.	12-in. Cypher Code	2	18	0

Cypher Code
publicist
publicity
publicly

No. 9,298.—J. STONE & CO'S

oval manhole cover,

Fitted with Two Elm Segment Blocks.



Size across top.	Size of opening.	Depth of frame.	£	s.	d.
28-in. × 23-in.	24-in. × 19-in.	12-in. Cypher Code	3	1	9
22-in. × 17-in.	18 $\frac{1}{2}$ -in. × 13 $\frac{1}{2}$ -in.	10-in. Cypher Code	1	17	6

Cypher Code
publicness
publish

No. 9,299.

oval manhole cover

(AIR-TIGHT AND TO LOCK).

With Wood Blocks and Gun-metal Locks.

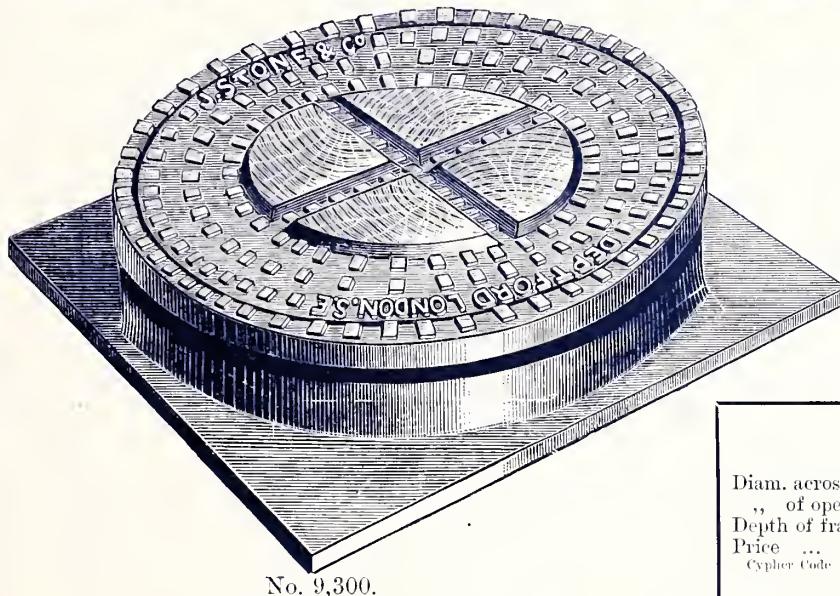
Made air-tight by sand or grease.

Size across top.	Size of opening.	£	s.	d.
28-in. × 23-in. × 6-in. deep	22 $\frac{1}{2}$ -in. × 17 $\frac{1}{2}$ -in. Cypher Code	£2.	10s.	6d. published

No. 9,298.

No. 9,300.—J. STONE & CO.'S

STRONG CLOSED TOP MANHOLE AND LAMPHOLE COVERS.

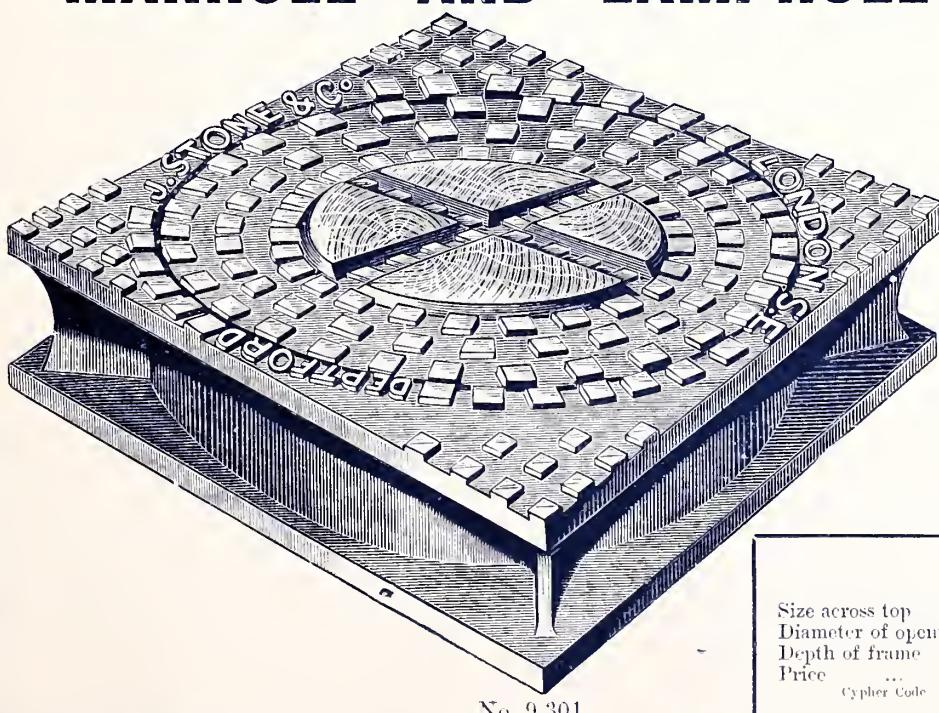


The Covers fitted with Elm Blocks.

	FOR LAMPHOLES.			FOR MANHOLES.		
Diam. across top	14½	16½	21	23½	26	28½-in.
" of opening	10	12	15	18	20	22 -in.
Depth of frame...	4	4½	6	6	6½	6½-in.
Price ...	14/6	17/9	28/3	37/9	43/6	50/6 each.
Cypher Code ...	published	published	published	publishter	publishter	publysslement

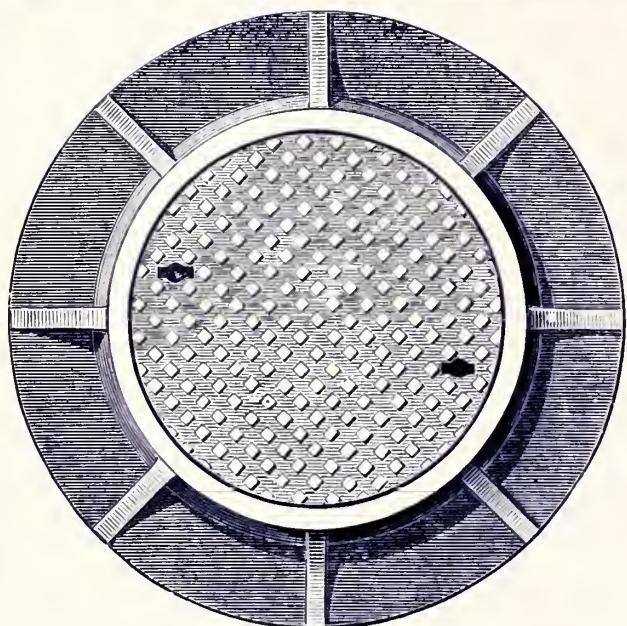
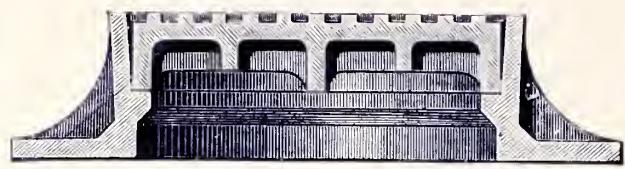
No. 9,301.—J. STONE & CO.'S

STRONG CLOSED TOP MANHOLE AND LAMPHOLE COVERS.



The Covers fitted with Elm Blocks.

	FOR MANHOLE.	FOR LAMPHOLE.
Size across top ...	23½-in.	16½-in.
Diameter of opening	18-in.	12-in.
Depth of frame ...	6-in.	4½-in.
Price ...	10 9 each.	21 7 each.
Cypher Code ...	pubmad	pubmade

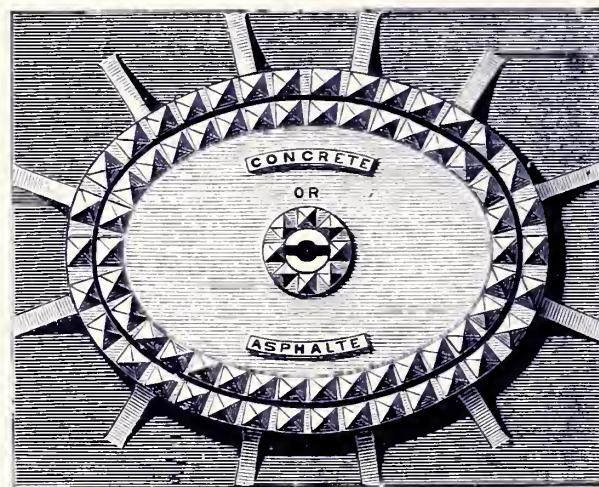


No. 9,302.

No. 9,302.—J. STONE & CO.'S

EXTRA STRONG CIRCULAR MANHOLE COVER.

Diameter across top 26½-in. ...	}	<small>Cypher Code</small>	100/- each. <small>pubmading</small>
„ of opening 22½-in. ...			
Depth of frame 9¼-in. ...			



No. 9,303.

No. 9,303.—J. STONE & CO.'S

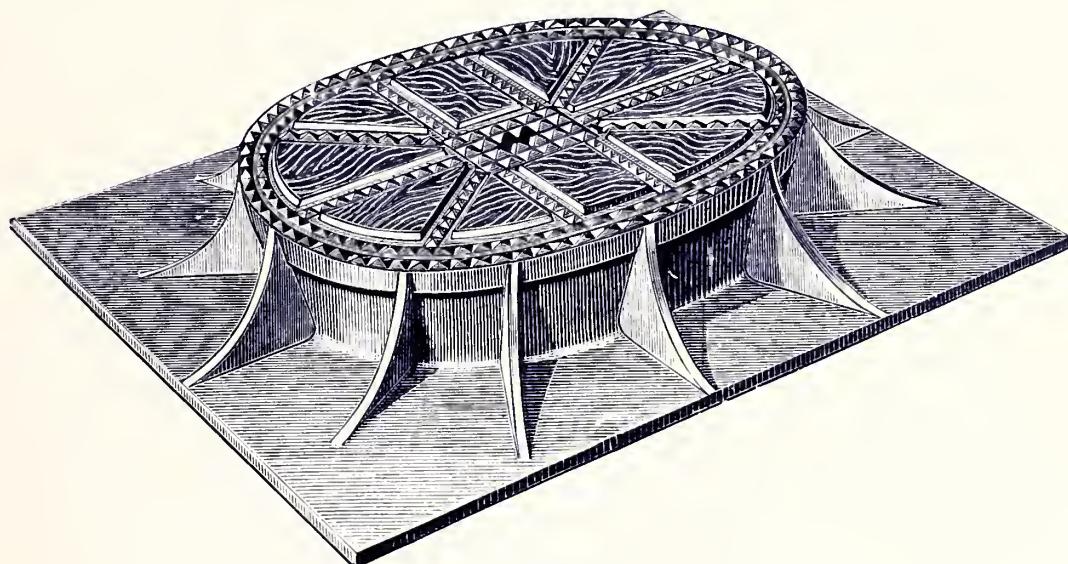
OVAL MANHOLE COVER.

With space to be filled up with concrete, asphalte,
or other approved material.

Size across top.	Size of opening.	Depth of frame.	£ s. d.
23-in. × 19½-in.	19½-in. × 15½-in. <small>Cypher Code</small> ...	6-in.	1 4 9 <small>pubmadie</small>
25-in. × 20-in.	20¾-in. × 16-in. <small>Cypher Code</small> ...	6-in.	1 10 0 <small>pubmadiot</small>

No. 9,304.—J. STONE & CO.'S

IMPROVED OVAL MANHOLE COVERS, WITH WOOD BLOCKS.

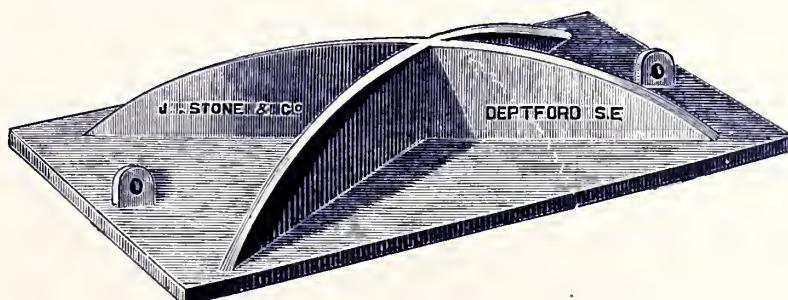


No. 9,304.

Size across top, 24-in. \times 19½-in.; size of opening, 17½-in. \times 13-in.; } £2 9s. 3d.
depth of frame, 7-in. } Cypher Code ... putmag

No. 9.305.—J. STONE & CO.'S

STRONG CAST IRON COVER PLATE.



No. 9,305.

Cypher Code \rightarrow pū'mage

PRICES ON APPLICATION.

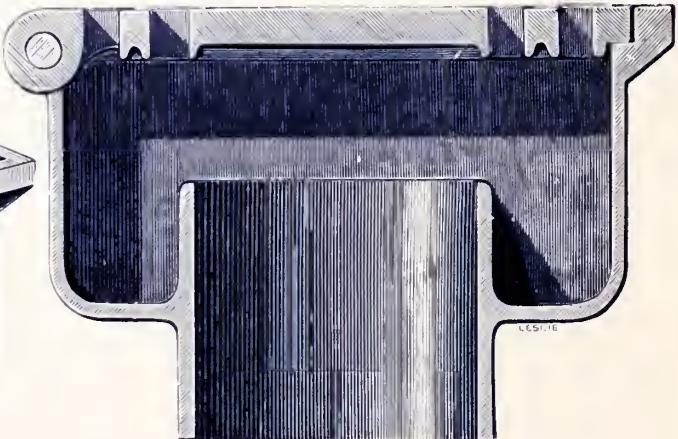
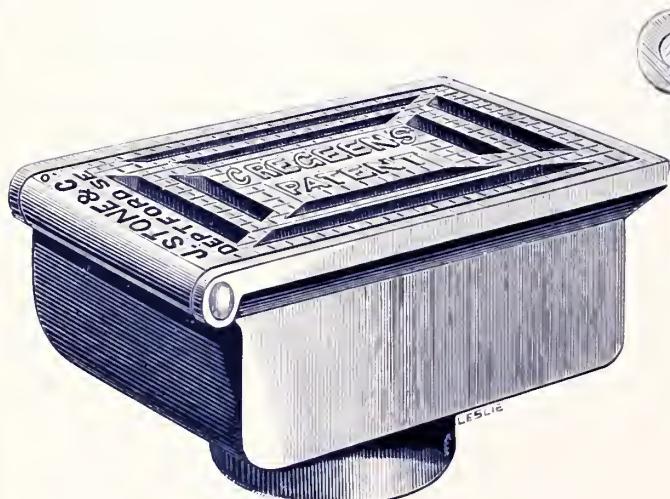
CERTIFICATE OF MERIT AWARDED BY SANITARY
INSTITUTE OF GREAT BRITAIN.

No. 9,306.

CREGEEN PATENT AIR-INLET,

FOR THE VENTILATION AND AERATION OF HOUSE DRAINS, &c.

(J. STONE & CO., Sole Manufacturers).



No. 9,306 (Section).

No. 9,306.

This Air-Inlet provides for the admission of a direct current of fresh air into the house drains, as recommended by the Local Government Board in their Model Bye-laws. The great advantage of this Air-Inlet is that, while serving the above purpose, it is so arranged that all foreign substances are prevented from falling into the drain, as in the case of the ordinary gratings. This is gained by the openings in the grating being placed over a recess or trough which catches all the dirt, &c., passing through.

PRICES.

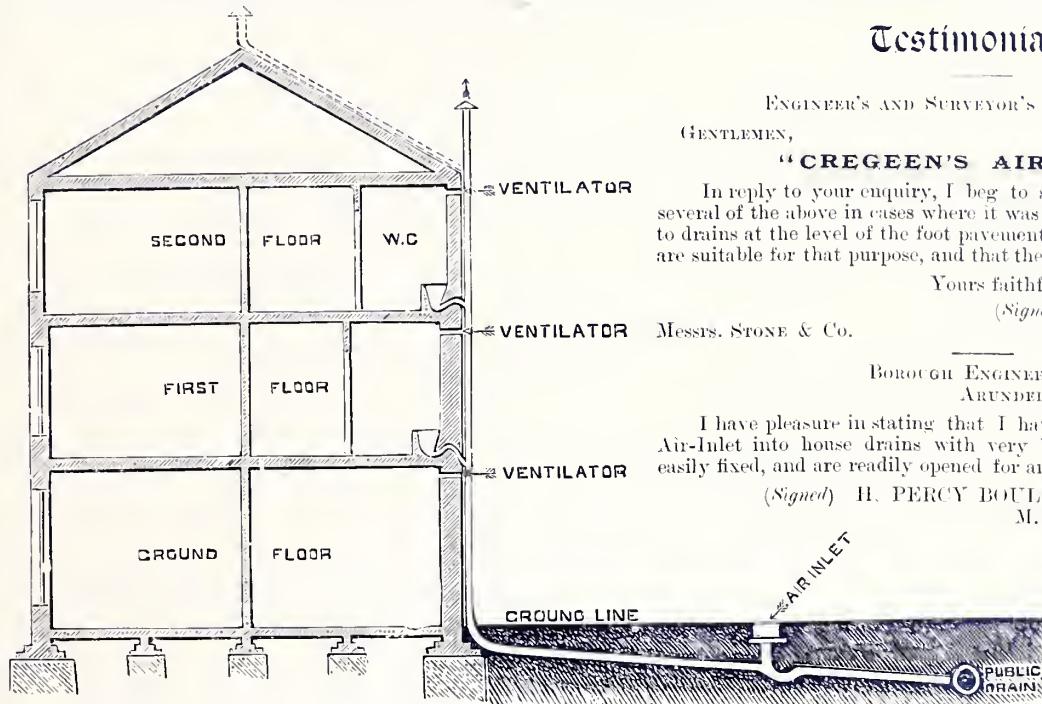
Size across top, 14-in. \times 14-in.; depth of frame, 6½-in.; diameter of spigot pipe, 6-in. in clear, as illustrated	...	...	...	...	...	Cypher Code	...	11/9
Do. do., spigot pipe 4-in. in clear	...	...	...	...	...	Cypher Code	...	11/3 pubmag
If fitted with lock	...	...	...	...	...	...	Extra Cypher Code	1/11 pubmagop
If with wrought iron key	...	...	...	...	...	...	Extra Cypher Code	1/10 pubmagut

For illustration showing how the Patent Air-Inlet is fitted and applied, see opposite page.

**CERTIFICATE OF MERIT AWARDED BY SANITARY INSTITUTE
OF GREAT BRITAIN.**

SECTION SHOWING CREGEEN PATENT AIR-INLET, AS APPLIED TO DWELLING HOUSES.

Testimonials.



ENGINEER'S AND SURVEYOR'S OFFICE, OXFORD,
GENTLEMEN,

"CREGEEN'S AIR-INLETS."

In reply to your enquiry, I beg to say that having lately used several of the above in cases where it was desirable to get an air-inlet to drains at the level of the foot pavement, I am of opinion that they are suitable for that purpose, and that they work well.

Yours faithfully,

(Signed) WM. H. WHITE,
MESSRS. STONE & CO.
M. Inst. C.E.

BOROUGH ENGINEER'S OFFICE,
ARUNDEL STREET, PORTSMOUTH.

I have pleasure in stating that I have introduced "CREGEEN's" Air-Inlet into house drains with very beneficial effect. They are easily fixed, and are readily opened for any purpose.

(Signed) H. PERCY BOULNOIS,
M. Inst. C.E.,
Borough Engineer,
Portsmouth.

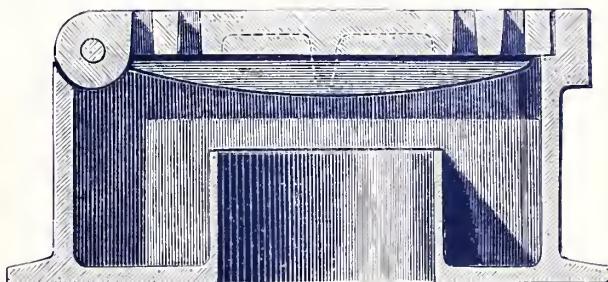
N.B.—The principle of having two untrapped openings for the ventilation of house drains is in accordance with the Model Bye-Laws issued by the Local Government Board to all Sanitary Authorities.

**No. 9,307.—CREGEEN
PATENT COMBINED SEWER VENTILATOR & DIRT BOX.**

(LAMPHOLE COVER.)



No. 9,307.



No. 9,307 (Section).

By means of the above, the necessity for a separate dirt box is entirely dispensed with, as all foreign substances are prevented from falling into the drain by having the openings in the gratings placed over a recess or trough, which catches all the dirt, &c., passing through. The area of the ventilating openings is made equal to the area of pipe leading to sewer.

PRICES.

Size across top, 22-in. \times 21½-in.; depth of frame, 9½-in.; diameter of pipe, 9-in. in clear

Cypher Code ...

15 - each.

pubmaha

If with projecting spigot pipe at bottom, as shown in illustration on opposite page ...

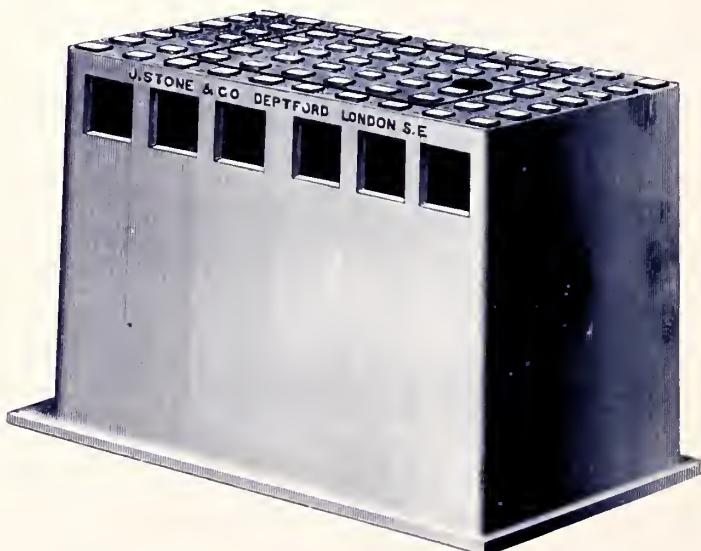
Cypher Code ...

2 6 extra.

pubmai

No. 9,308.—J. STONE & CO.'S

IMPROVED KERB AIR = INLET.



No. 9,308.

This Air-Inlet is specially designed for fitting in a line with the kerb of pathways for the admission of air into the drains.

Size over top, $13\frac{3}{8}$ -in. \times $9\frac{3}{8}$ -in.; opening in top, $8\frac{3}{8}$ -in. \times $5\frac{5}{8}$ -in.; depth, $11\frac{1}{2}$ -in.

Price, with lock 12/6 each.
 Cypher Code pubmal

No. 9,309.

J. STONE & CO.'S

IMPROVED COMBINED

SEWER VENTILATING AND LAMP COLUMN.

Fitted with LAMP and also having revolving cowl
at top of column.

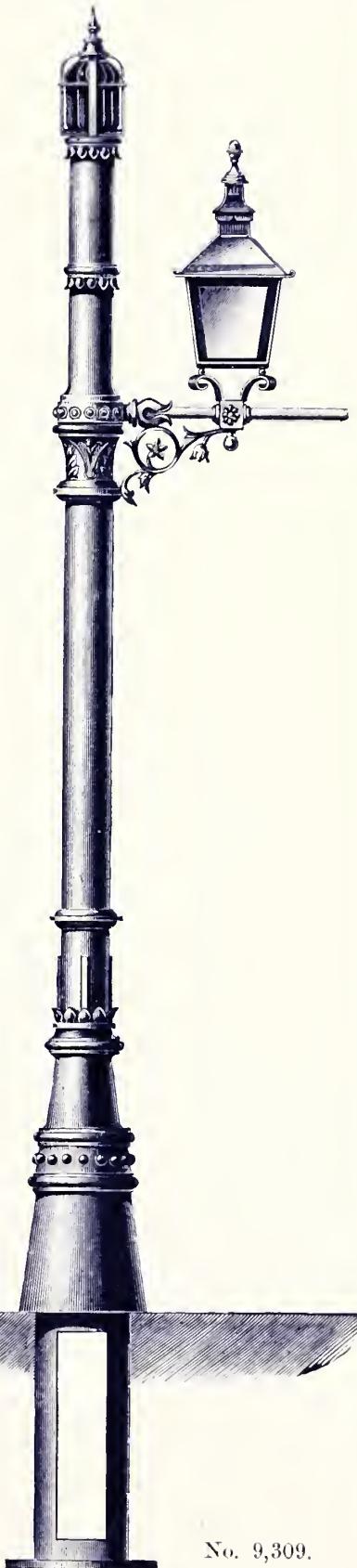
HEIGHT, 12 FEET ABOVE GROUND LEVEL.

CAN BE SUPPLIED LONGER IF REQUIRED.

Cypher Code . . . pubmale

PRICES ON APPLICATION.

GROUND LEVEL.



No. 9,309.



No. 9,310.

No. 9,310.

J. STONE & CO.'S

IMPROVED

SEWER VENTILATING COLUMN,

With Ornamental Cast Iron Base, and Steel Shaft.

CAN BE SUPPLIED WITH PLAIN TOP, OR CAGE
ON TOP, AS ILLUSTRATED.Ordinary sizes, 6-in. and 9-in. diameter
Steel Shaft.

**CAN BE MADE OF ANY REQUIRED
SIZE.**

Cypher Code pubmaling

PRICES ON APPLICATION.

Nos. 9,311 and
9,312.

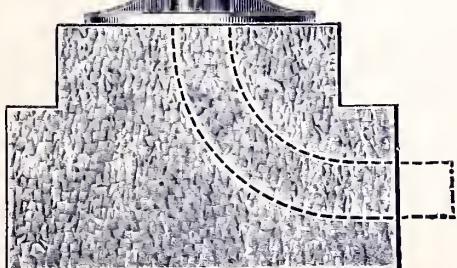
J. STONE & CO.'S

**SEWER
VENTILATING
COLUMNS.**

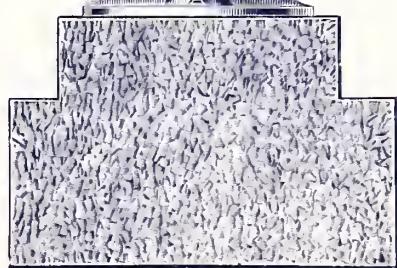
With Steel Shafts (usual
size 6-in. diameter) and
Cast Iron Bases.

**CAN BE MADE OF
ANY REQUIRED SIZE.**

**PRICES
ON APPLICATION.**



No. 9,311. Cypher Code ... pubmalip.

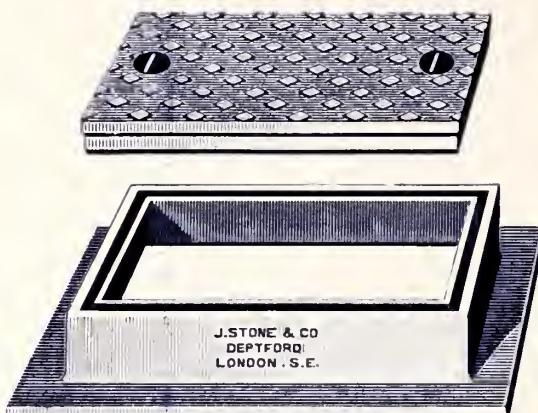


No. 9,312. Cypher Code ... pubmalit.

No. 9,313.—J. STONE & CO.'S

IMPROVED**"AIR-TIGHT" COVER AND FRAME,**

With Grease or Sand Joint.



No. 9,313.

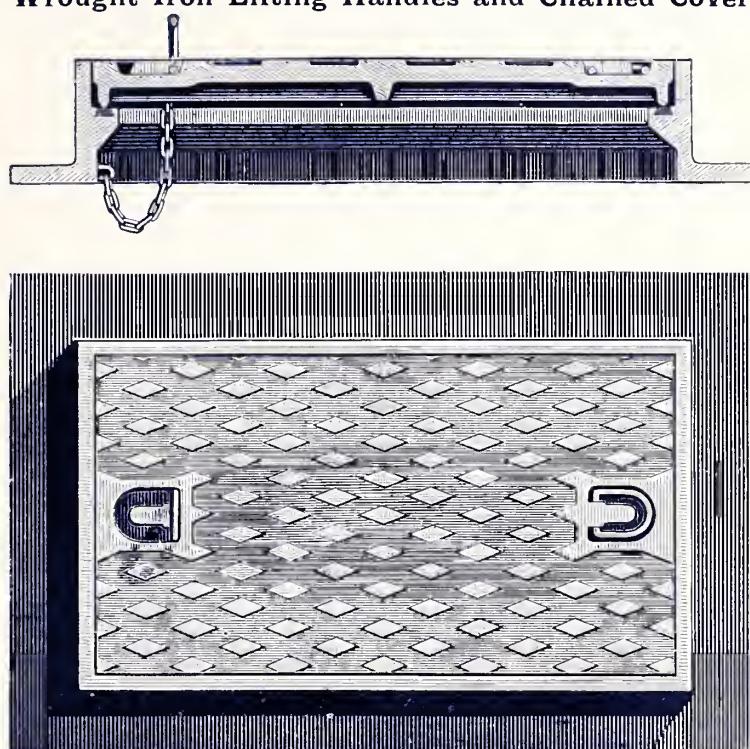
Size in clear.	LIGHT PATTERN.			HEAVY PATTERN.		
	Painted.		Galvanized.	Painted.		Galvanized.
12-in. x 12-in. ... Cypher Code ..	£ 0 pubm... 7 8 0	s. 0 pubmamal	d. 6	£ 0 pubmambyal	s. 10 6	d. 0 19 0 pubmameal
15-in. x 15-in. ... Cypher Code ..	£ 0 pubmameal	s. 8 6	d. 0 0	£ 0 pubmameyal	s. 12 3	d. 1 2 6 pubmamal
16-in. x 10-in. ... Cypher Code ..	£ 0 pubmamal	s. 8 0	d. 3	—	—	— pubmedal
18-in. x 18-in. ... Cypher Code ..	£ 0 pubmamal	s. 10 6	d. 3	£ 0 pubmamal	s. 16 3	d. 1 9 9 pubmenal
21-in. x 15-in. ... Cypher Code ..	£ 0 pubmenal	s. 11 6	d. 9	—	—	— pubmatal
24-in. x 9-in. ... Cypher Code ..	£ 0 pubmatal	s. 9 3	d. 9	—	—	— pubmatal
24-in. x 18-in. ... Cypher Code ..	£ 0 pubmatal	s. 12 9	d. 0	£ 1 pubmatal	s. 0 3	d. 1 16 3 pubmatal
24-in. x 24-in. ... Cypher Code ..	£ 0 pubmatal	s. 17 6	d. 3	£ 1 pubmatal	s. 4 6	d. 2 4 3 pubmatal
30-in. x 18-in. ... Cypher Code ..	— pubmatal	—	—	£ 1 pubmatal	s. 6 0	d. 2 6 0 pubmatal
30-in. x 24-in. ... Cypher Code ..	— pubmatal	—	—	£ 1 pubmatal	s. 8 6	d. 2 10 9 pubmatal
36-in. x 24-in. ... Cypher Code ..	— pubmatal	—	—	£ 1 pubmatal	s. 13 0	d. 2 19 0 pubmatal

EXTRAS.

If either of above fitted with 2 iron locks £ 0 5 0 per cover.
 Cypher Code ... pubnored
 Do. do. with 2 gun-metal locks 0 6 0 ,
 Cypher Code ... publost

No. 9,314.—J. STONE & CO.'S
IMPROVED STRONG PATTERN
"AIR-TIGHT" COVER AND FRAME.

The Joint packed with india-rubber or other suitable material, also fitted with Wrought Iron Lifting Handles and Chained Covers.



No. 9,314.

PRICES.

SIZES.—Inside frame.	SIZES.—Over top of frame.	PAINTED.	GALVANIZED.
15-in. × 15-in.	16-in. × 16-in. Cypher Code ...	£ 0 16 9 pubuosteyal	£ 1 6 6
20-in. × 20-in.	21-in. × 21-in. Cypher Code ...	£ 1 7 9 pubodal	£ 2 5 0 puboal
24-in. × 18-in.	25-in. × 19-in. Cypher Code ...	£ 1 11 0 pubodeal	£ 2 9 9 pubodal
24-in. × 20-in.	25-in. × 21-in. Cypher Code ...	£ 1 12 9 pubodyal	£ 2 13 0 pubogeyal
33-in. × 30-in.	34½-in. × 31½-in. Cypher Code ...	£ 3 15 9 pubolal	£ 6 9 3 pubomial

EXTRAS.

If either of above fitted with two iron locks ... £ 0 5 6 per cover.

Do. do. with two gun-metal locks ... £ 0 6 6 ,

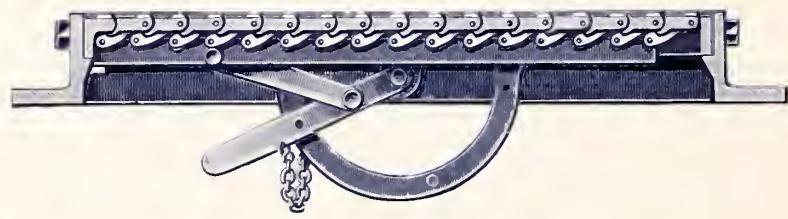
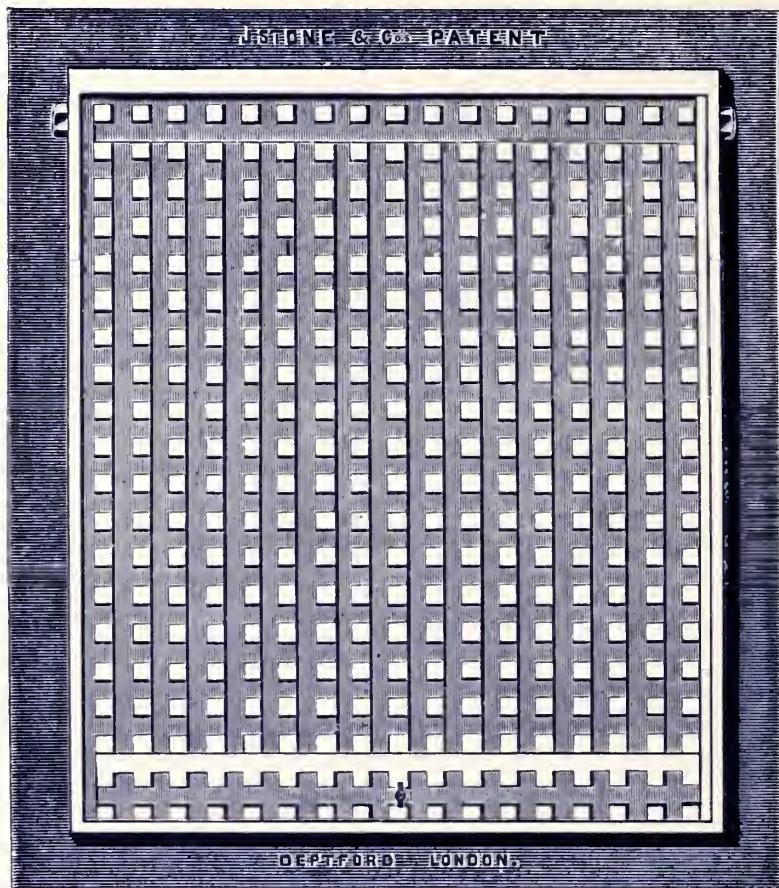
We make some sizes with Hinged Covers, if required.

PRICES OF OTHER SIZES ON APPLICATION.

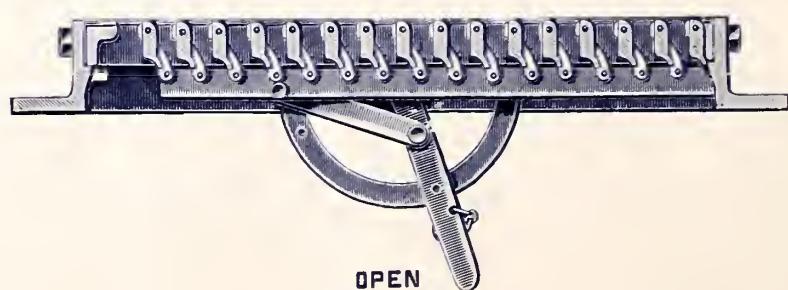
No. 9,315.—CIRCULAR PATTERN Ditto, to lock.

		PAINTED.	GALVANIZED.
28½-in. diameter over top of frame	... ...	£ 1 16 0	£ 2 16 0
20-in. diameter in clear	{ Cypher Code ...	{ puboity	{ pubom

No. 9,316.—J. STONE & CO.'S
NEW PATENT
“LOUVRE” OPENING SIDE ENTRANCE COVER.



CLOSED

OPEN
No. 9,316.

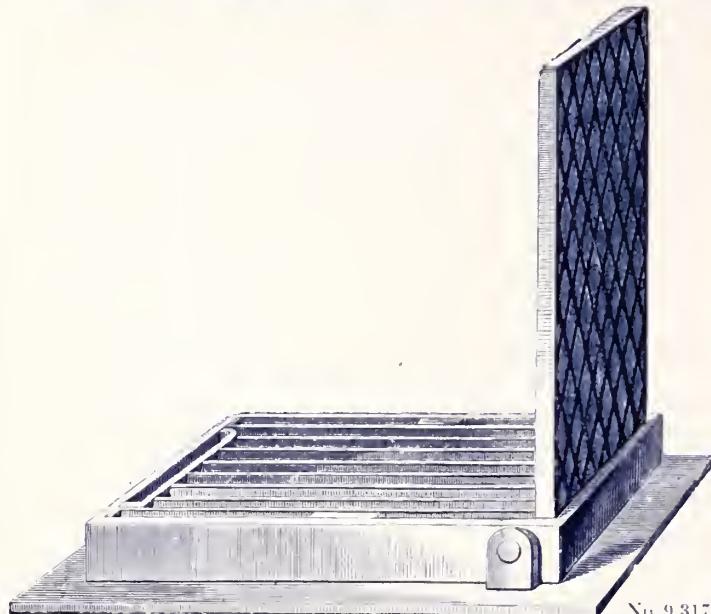
No. 9,316 J.—STONE & CO.'S NEW PATENT

“LOUVRE” OPENING SIDE ENTRANCE COVER.

Specially designed to obviate the objection to ordinary Side Entrance Covers, which have the door projecting above the footway during the time men are at work below, which projection is a constant source of danger and inconvenience to pedestrians, and also usually requires a surface man at the spot to warn passers by. In the “Louvre” opening Side Entrance Cover, the open grating and closed door are combined. The door is fitted with adjustable pivoted bars or slabs, changing by the movement of a lever at the bottom of door from a horizontal position when closed to a vertical position when open, thus allowing free admission of air to the chamber or sewer below, without any projection above level of pathway. When closed, the locking bar forms an extra support to door, which is thus greatly strengthened.

PRICES ON APPLICATION.

No. 9,317.—J. STONE & CO.'S

SIDE ENTRANCE COVERS WITH SAFETY GRATES.

No. 9,317.

TO LOCK.	Size (inside frame).	£ s. d.
With wrought iron door } and grating ... Cypher Code ...	30-in. X 26-in.	3 7 9
Ditto ditto ... Cypher Code ...	30-in. X 30-in.	3 13 0
Ditto ditto ... Cypher Code ...	36-in. X 36-in.	5 12 0
Extra strong pattern } Cypher Code ...	30-in. X 26-in.	3 12 9
Ditto ditto ... Cypher Code ...	36-in. X 36-in.	6 10 9
With cast door and } wrought grating ... Cypher Code ...	30-in. X 26-in.	3 2 6
Ditto ditto ... Cypher Code ...	30-in. X 30-in.	3 10 6
Ditto ditto ... Cypher Code ...	36-in. X 36-in.	5 13 0
Extra strong pattern } Cypher Code ...	30-in. X 26-in.	4 6 6
With cast door and } grating ... Cypher Code ...	30-in. X 26-in.	2 19 0
Ditto ditto ... Cypher Code ...	30-in. X 30-in.	3 10 0
Ditto ditto ... Cypher Code ...	36-in. X 36-in.	4 16 9
Extra strong pattern } Cypher Code ...	30-in. X 26-in.	4 3 9

**No. 9,318.—J. STONE & CO.'S LATEST IMPROVED
“METROPOLITAN” PATTERN SIDE ENTRANCE COVER.**

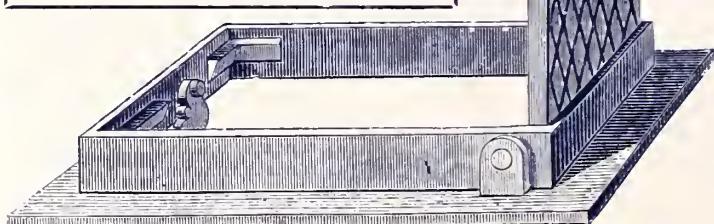
Of EXTRA STRONG and SUPERIOR DESCRIPTION; with Wrought Iron Door and Grating, and Special Gun-metal Safety Arrangement, as adopted for the Metropolis.

Size 30-in. X 30-in.	... ... ...	... ... ...	... Cypher Code ...	... 6 18 0
„ 30-in. X 26-in.	... ... ...	... ... ...	... Cypher Code ...	... 6 12 0

**No. 9,319.—J. STONE & CO.'S
CAST IRON FRAME AND DOOR,**

With VENTILATING OPENINGS, and to LOCK.

£ s. d.
15-in. square, inside frame ... Cypher Code ... 0 17 3
18-in. „ „ „ Cypher Code ... 1 1 0
20-in. „ „ „ Cypher Code ... 1 9 3
20-in. „ (heavy pattern) Cypher Code ... 1 13 0
24-in. „ „ „ Cypher Code ... 1 14 3
30-in. X 26-in. „ „ „ Cypher Code ... 2 1 0
30-in. X 30-in. „ „ „ Cypher Code ... 2 6 3
36-in. X 36-in. „ „ „ Cypher Code ... 3 10 0



IRON KEYS FOR EITHER OF ABOVE 1 - EACH.

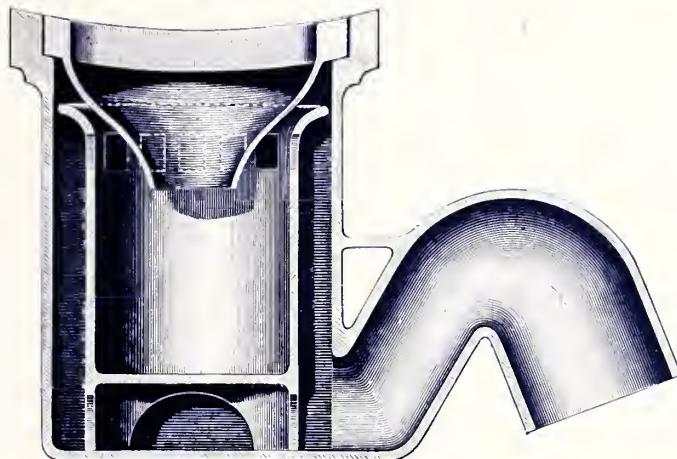
Cypher Code ... pubyorn

**No. 9,320.—J. STONE & CO.'S
IRON FRAME WITH HINGED DOOR.**

TO LOCK.	All cast iron.	Cast iron frame and wrought door.
14½-in. square, inside frame Cypher Code ...	£ s. d. 0 17 6	£ s. d. 1 1 9
17-in. „ „ „ Cypher Code ...	pubygate 1 1 6	pubyrost 1 6 6
20-in. „ „ „ Cypher Code ...	pubyham 1 10 0	pubyhamet 1 12 0
24-in. „ „ „ Cypher Code ...	pubyhan 1 14 3	pubyhan 1 17 6
20-in. „ heavy door Cypher Code ...	pubyant 1 13 9	pubyit —
30-in. X 26-in. „ „ „ Cypher Code ...	pubyito 2 1 0	pubyitol 2 6 3
30-in. X 30-in. „ „ „ Cypher Code ...	pubyiz 2 7 3	pubyo 2 9 9
36-in. X 36-in. „ „ „ Cypher Code ...	pubyod 3 8 9	pubyode 3 8 3
36-in. X 36-in. heavy patt. Cypher Code ...	pubyoding —	pubyom 4 4 6
48-in. X 18-in. „ „ „ Cypher Code ...	pubyoment 3 1 0	pubyon —
12-in. X 15-in. with deep frame, 9-in. deep „ „ „ Cypher Code ...	pubyonet —	pubyope 1 1 3
Without lock „ „ „ Cypher Code ...	pubyoping —	pubyor —

No. 9,321.—J. STONE & CO.'S

IMPROVED DOUBLE TRAPPED GULLY GRATING, WITH SLUDGE BOX.



No. 9,321.

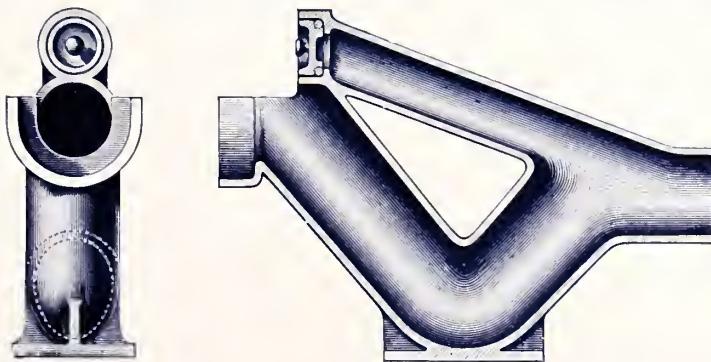
Cypher Code ... pubyorist

Size over top.	Depth.
18-in. × 15-in.	18-in.
Made with 6-in. or 4-in. outlets, as ordered.	

PRICES ON APPLICATION.

No. 9,322.—J. STONE & CO.'S

IMPROVED "DISCONNECTOR" OR "DRAIN SENTINEL."



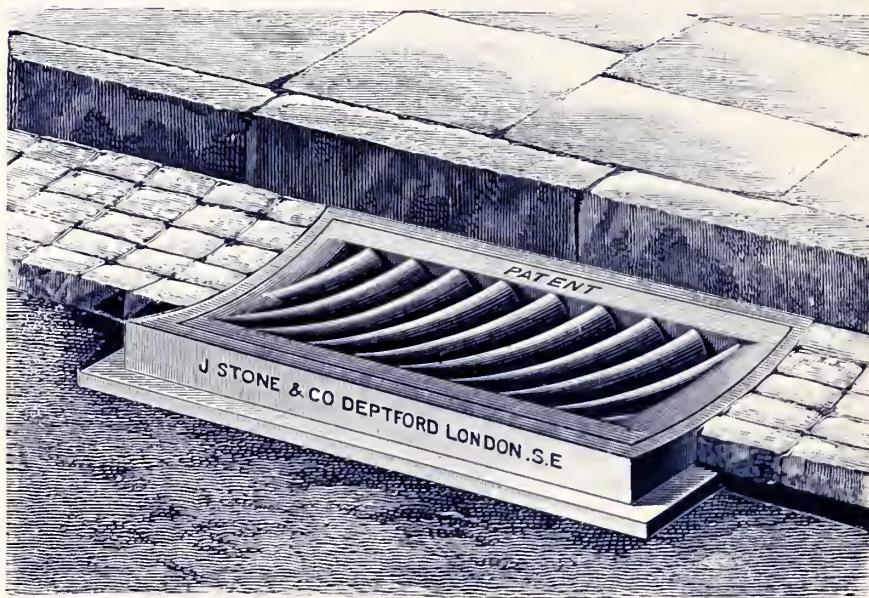
No. 9,322.

Cypher Code ... puboristy

PRICES ON APPLICATION.

No. 9,323.—J. STONE & CO.'S

NEW PATENT "DIAGONAL" GULLY GRATE.



No. 9,323.

This Gully Grate has been specially designed to obviate the tendency of ordinary Gully Grates to become choked up with leaves, straw, or other refuse, and so that a greater quantity of water will pass between the bars, which is of a special importance in hilly districts or where heavy rain-falls occur.

As will be seen from the illustration, the bars are so placed in the frame that the flow or rush of water, while being deflected by the bars, will have a tendency to wash all refuse to the margin of the Grate and prevent blocking-up of bars.

The bars are also made of special shape, which has been adopted after trial for efficiency.

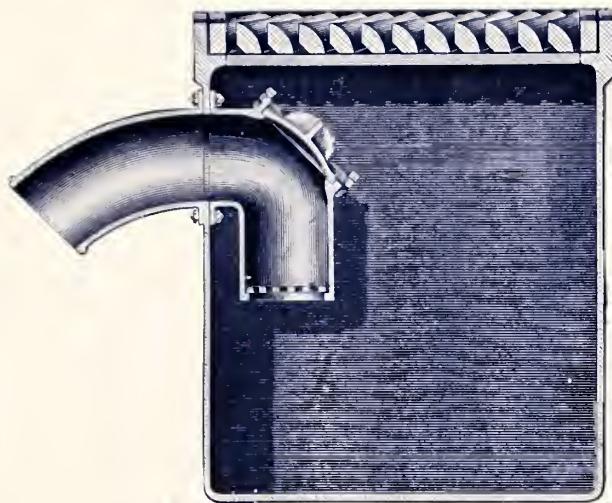
Size Outside Top.	Price.		
	£	s.	d.
11-in. × 8-in. × 1½-in. deep	0	4	6
Cypher Code ...		pubut	
17½-in. × 14-in. × 3½-in. ,,	0	18	6
Cypher Code ...	pubuta		
22-in. × 14-in. × 3½-in. ,,	1	6	9
Cypher Code ...	pubante		
22-in. × 18-in. × 3½-in. ,,	1	8	6
Cypher Code ...	pubutist		
25½-in. × 18-in. × 3½-in. ,,	1	11	9
Cypher Code ...	pubuty		
Extra Strong 25½-in. × 18-in. × 4-in. deep..	1	18	0
Cypher Code ...	puc		
28-in. × 16-in. × 3½-in. deep	1	9	0
Cypher Code ...	puca		

OTHER SIZES WILL BE MADE IF REQUIRED.

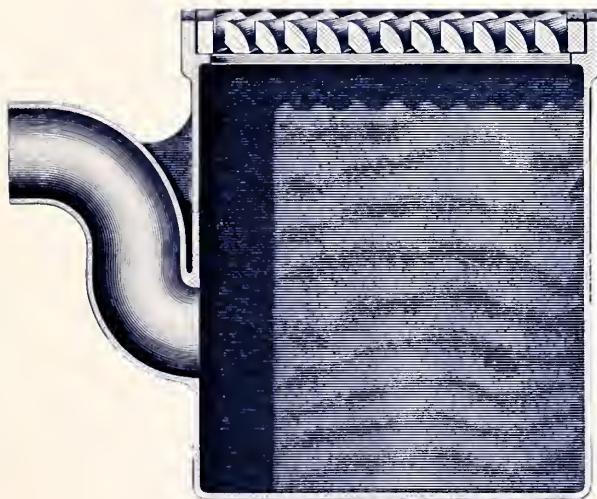
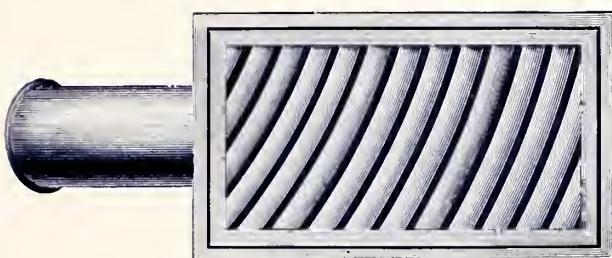
In order to obtain the full advantage of these Grates they should be fixed with bars looking up stream, hence they are made right and left handed. Engineers are requested to state which required when ordering. The illustration shows a left-handed Grate.

—♦—

J. STONE & CO., being the PATENTEEs of above "Diagonal" Gully Grates, will institute legal proceedings against all persons manufacturing or selling any colourable imitations of same.



No. 9,324.



No. 9,325.

Nos. 9,324 and 9,325.

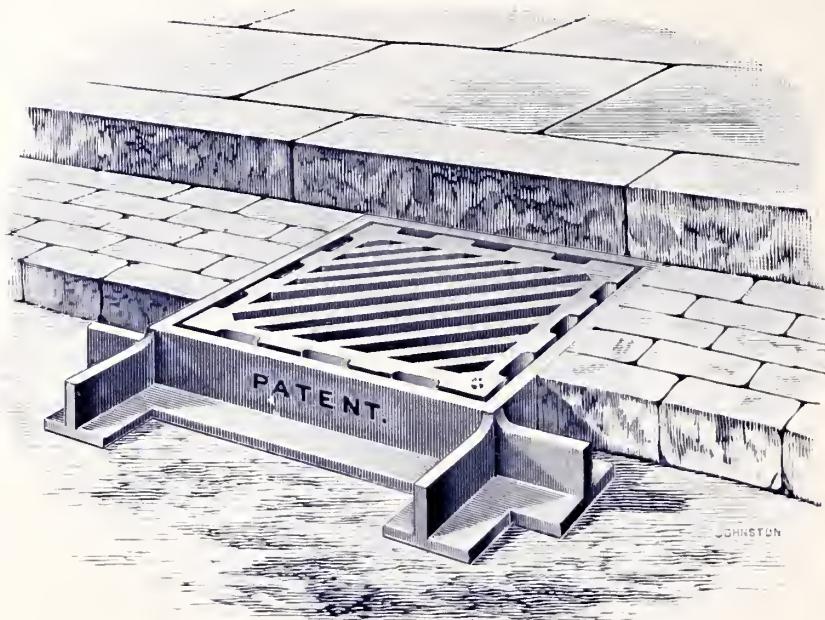
J. STONE & CO.'S

NEW PATENT**"DIAGONAL"****GULLY GRATES,**As described on page 80, fitted with
CLEARING PIT.

Size over Top.	Depth.
11-in. × 8-in. Cypher Code ...	10 inches, pneac
17½-in. × 14-in. Cypher Code ...	18 ,, pueacle
22-in. × 14-in. Cypher Code ...	24 ,, pueenco
22-in. × 18-in. Cypher Code ...	24 ,, pueende
25½-in. × 18-in. Cypher Code ...	30 ,, pueend
28-in. × 16-in. Cypher Code ...	33 ,, pueendle

PRICES ON APPLICATION.

No. 9,326.—J. STONE & CO.'S

"H. & E." PATENT GULLY GRATE.

No. 9,326.

This Improved Grating is constructed with bars set at an angle of 45° to the frame, and any refuse that is carried by water is deflected sideways by the bars.

The bars being thus placed the course of the water is broken and eddies over the grating, causing the water to actually cleanse the surface of refuse that would otherwise block it.

The bars are constructed with a wider opening under, than on, the surface, so allowing a stone, which ordinarily would become jambed, to drop through into the gully pit.

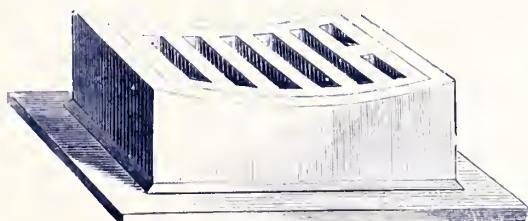
The grating is fitted in a special frame having a full flanged base, which, embedded in concrete, or built in masonry, prevents the grating becoming displaced by heavy weights passing over.

PRICES.

Outside Top of Frame.	Depth.	£	s.	d.
19½-in. × 19½-in. 3½ inches	1	11	0
16¼-in. × 16¼-in. 3½ "	1	5	3
13¾-in. × 13¾-in. 3¾ "	1	0	0
10¼-in. × 10¼-in. 3½ "	0	12	6
Extra strong, 19½-in. × 16½-in. ... 9 "	2	4	0

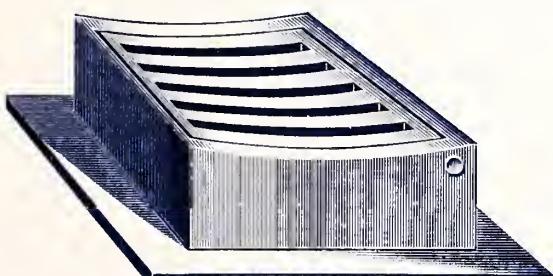
J. STONE & CO., being SOLE LICENSEES for the sale of above Patent "Diagonal" Gully Grates, will institute legal proceedings against all persons manufacturing or selling any colourable imitations of same.

No. 9,327.—J. STONE & CO.'S
STRONG
CAST IRON GULLY GRATE,
WITH MOVEABLE GRATING.



No. 9,327.

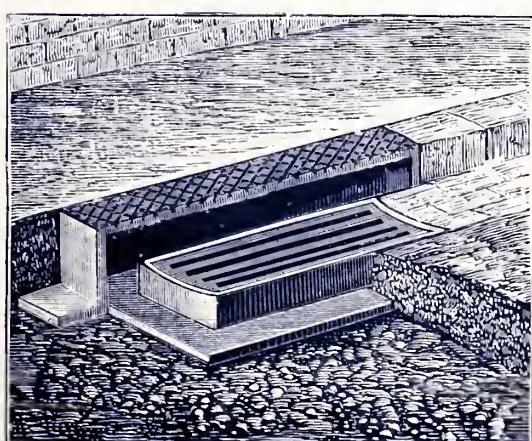
No. 9,328.—J. STONE & CO.'S
STRONG
CAST IRON GULLY GRATE,
WITH HINGED GRATING.



No. 9,328.

	Size outside Top.	Depth.	Price.
20-in. \times 14½-in.	4½ inches	1 1 3
26-in. \times 14½-in.	Cypher Code 6 inches	pucage
26-in. \times 16½-in.	Cypher Code 6 inches	1 15 3
28½-in. \times 18½-in.	Cypher Code 6 inches	pucage
28½-in. \times 20½-in.	Cypher Code 6 inches	2 1 6
27-in. \times 21-in.	Cypher Code 6 inches	2 5 3
33-in. \times 16½-in.	Cypher Code 7 inches	2 10 9
39-in. \times 27-in.	Cypher Code 7½ inches	4 9 3
		Cypher Code	pucage
DITTO, WITH LUGS INSTEAD OF SQUARE BASE AT BOTTOM.			
27½-in. \times 21-in.	3 inches	1 0 0
30½-in. \times 23-in.	Cypher Code 6 inches	2 4 3
		Cypher Code	pucage

	Size outside Top.	Depth.	Price.
12-in. \times 12-in.	6 inches	0 12 6
13½-in. \times 13½-in.	Cypher Code 3 inches	pucad
15-in. \times 15-in.	Cypher Code 4 inches	0 14 9
16-in. \times 16-in.	Cypher Code 6 inches	0 18 0
17½-in. \times 17½-in.	Cypher Code 4½ inches	0 19 3
17-in. \times 9½-in.	Cypher Code 6 inches	0 19 6
18-in. \times 18-in.	Cypher Code 6 inches	1 2 3
19½-in. \times 16½-in.	Cypher Code 3½ inches	0 14 3
20-in. \times 14½-in.	Cypher Code 4½ inches	1 1 0
20-in. \times 14½-in.	Cypher Code 6 inches	1 7 6
20-in. \times 17-in.	Cypher Code 6 inches	1 7 6
26½-in. \times 16½-in.	Cypher Code 6½ inches	1 13 0
31½-in. \times 14-in.	Cypher Code 8 inches	1 13 9
20-in. \times 20-in.	Cypher Code 11 inches	1 19 0
24-in. \times 17-in.	Cypher Code 6 inches	1 18 3
26-in. \times 19-in. (without flange on back)	Cypher Code 6 inches	pucage
13½-in. \times 13½-in. (with flat top)	Cypher Code 3½ inches	0 9 10
19½-in. \times 16½-in. do.	Cypher Code 3½ inches	0 14 9
		Cypher Code	pucad



No. 9,329.

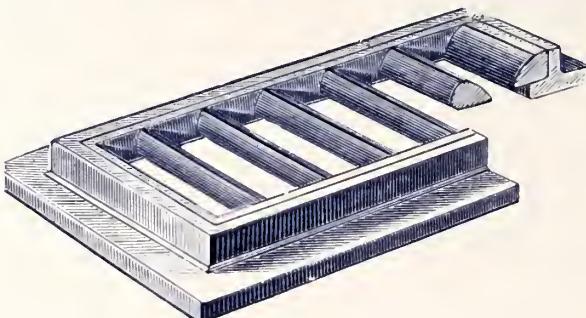
No. 9,329.—J. STONE & CO.'S
KERB GULLY OVERFLOW.

Cypher Code — pucrate

Can be supplied of any required size.

PRICES ON APPLICATION.

No. 9,330.—J. STONE & CO.'S
IMPROVED CAST IRON GULLY GRATE.
 SPECIALLY ADAPTED FOR HILLY DISTRICTS.



No. 9,330.

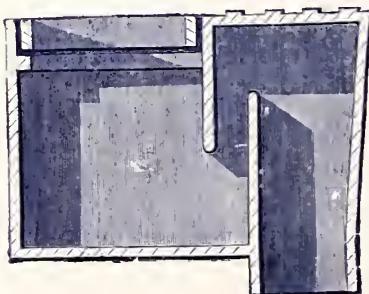
From the construction of the bars, this Gully Grate presents a larger opening than the usual form of common gullies for the free discharge of water from the road ; whilst at the same time, the spaces between the bars being narrowed at the lower edge, prevents stones, &c., falling through to choke the gully tanks, thus rendering it specially adapted for hilly districts.

These Gully Grates have been used in the hilly districts of Redhill, Reigate, &c., for some years, with great success.

PRICES.

Size outside Top.	Depth.	£	s.	d.
22-in. x 18-in.	3½ inches Cypher Code	0	17	0
25½-in. x 18-in.	3½ inches Cypher Code	0	18	0
27½-in. x 18-in.	3½ inches Cypher Code	1	2	6

No. 9,331.

"LOWE" EFFLUVIA TRAP SEWER GRATING.

No. 9,331. (Section.)

The water falls through the grate at top into the large chamber, and overflowing the partition, passes into the sewer.

It is most effectively trapped by the water, which prevents the escape of any effluvia.



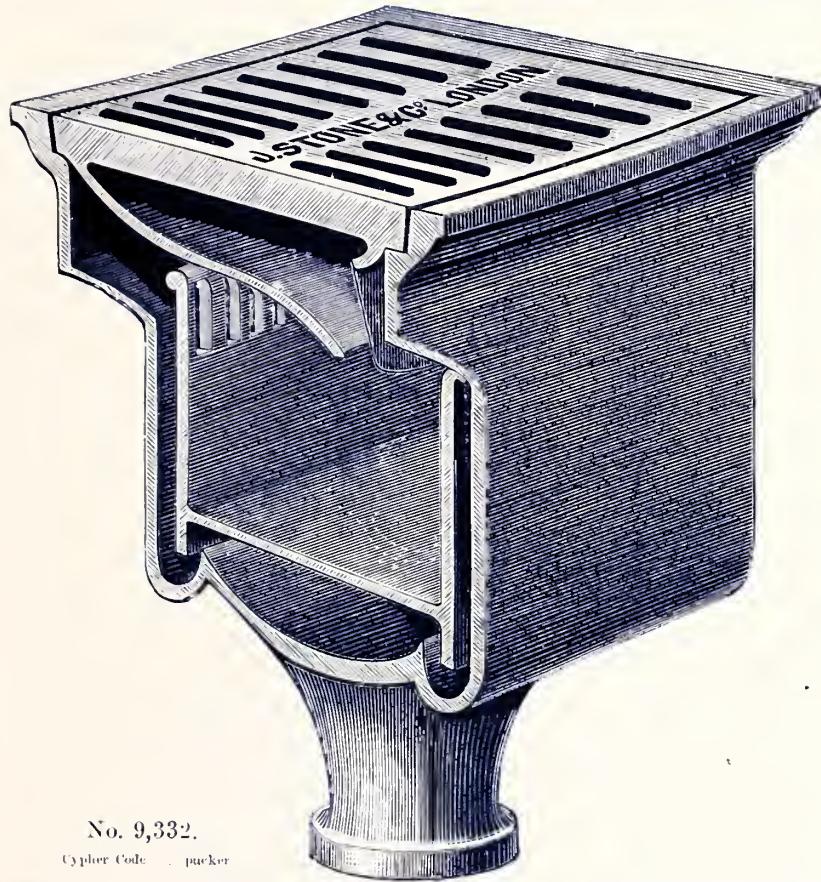
No. 9,331. (Plan.)

PRICE.

Size.	£	s.	d.
20-in. x 12-in. x 12-in. deep Cypher Code	1	3	9

No. 9,332.—J. STONE & CO.'S

IMPROVED DOUBLE TRAPPED GULLY GRATING, WITH SLUDGE BOX. STRONG PATTERN.



No. 9,332.

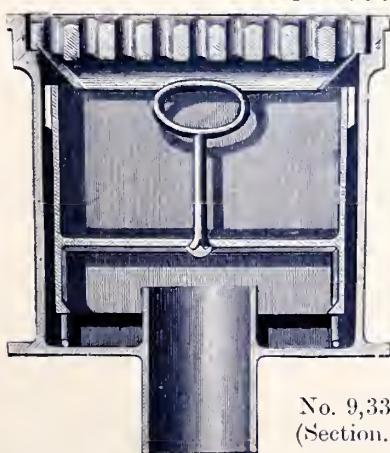
Cypher Code . . . pucker

PRICES ON APPLICATION.

No. 9,332.—J. STONE & CO.'S

IMPROVED DOUBLE TRAPPED GULLY GRATING.

As above, but of somewhat different pattern.

No. 9,333.
(Section.)

PRICES.

Size over Top.	Depth.	
20-in. x 14 in.	14-in. Cypher Code	49/3 puckered
17-in. x 12-in.	13-in. Cypher Code	38/3 puckered
14-in. x 10 in.	12-in. Cypher Code	22/3 puckeridge



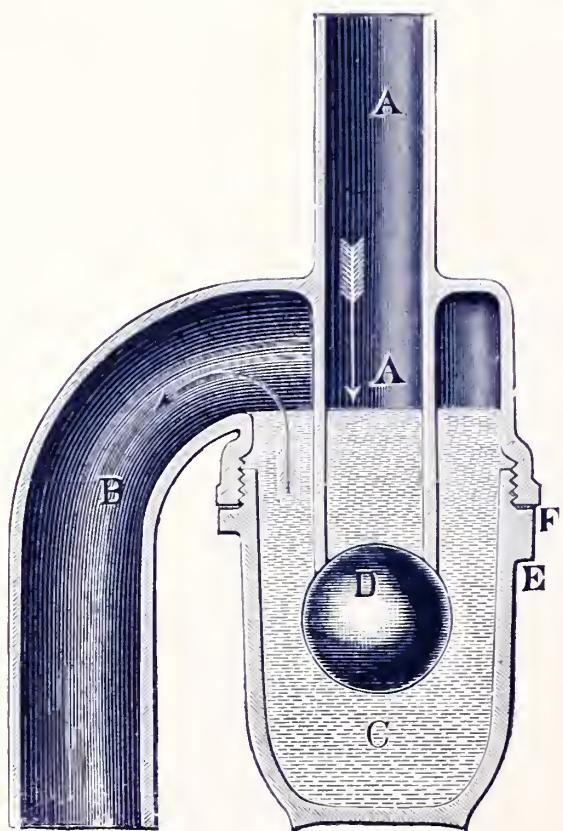
No. 9,333. (Plan.)



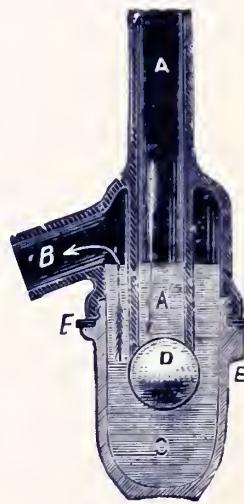
NO MORE SEWER GAS IN HOUSES.

Sole Licensees and Manufacturers of the Celebrated
 No. 9,334.—“**BOWER**” **PATENT SEWER GAS TRAP,**
FOR SINKS, BATHS, LAVATORIES AND WATER CLOSETS.
 THE ONLY PERFECT TRAP. OVER 100,000 IN USE.

Awarded Gold Medal at International Health Exhibition, London.



1-in. x 1½-in. Full S Trap (half-size).



Half S Trap.

EXPLANATION.

A.—Inlet Pipe, connecting directly with Wash-stand, Sink, or other fixtures.

B.—Outlet Pipe, connecting directly with the main Waste Pipe.

C.—Cup-shaped Chamber which always remains filled with liquid up to pipe **B**, thereby floating the Hollow Rubber Valve **D** firmly to the mouth of the Pipe **A** and making a perfect seal.

E.—Is a small Lug on the Cup to enable a person to screw and unscrew the cup easily.

F.—Is a Rubber Casket to prevent leakage from the joining of the Cup to the body of the Trap.

FOR PRICES, &c., SEE OPPOSITE PAGE.

No. 9,334.—THE

“BOWER” (PATENT) SEWER GAS TRAP,

FOR SINKS, BATHS, LAVATORIES AND WATER CLOSETS,

RENDERING ESCAPE OF SEWER GAS INTO HOUSE IMPOSSIBLE.

AWARDED GOLD MEDAL AT INTERNATIONAL HEALTH EXHIBITION, LONDON.

ADVANTAGES.

1st—Seal against Sewer Gas under Pressure.
 2nd—Seal against Absorbed Gases.
 3rd—Seal against Backwater.
 4th—Seal is not broken by Syphonage.
 5th—Seal is not broken by Evaporation.
 6th—Self-Scouring or Cleaning.
 7th—Cup at bottom can be removed and replaced instantaneously.

8th—Glass Section exposing Valve Mechanism and shewing at a glance if Trap is in proper order.
 9th—Compression of Valve allows for Expansion by Freezing.
 10th—Can be repaired or Valve renewed at any time.
 11th—Simple, Cheap, Effective, and Durable.

Every SINK, BATH, LAVATORY and WATER CLOSET should be fitted with one of above, so preventing risk of Blood-poisoning, Diphtheria and Fevers, so often resulting from sewer gas escaping into the house.

PRICES.

FULL S TRAP.				SIZE.		HALF S TRAP.			
No.	With Glass Cup.	No.	With Lead Cup.	Inlet.	Outlet.	No.	With Glass Cup.	No.	With Lead Cup.
1	5/6	2	7/6	1-in.	×	1½-in.	5/6	4	7/6
Cypher Code	puckerness	Cypher Code	puckery	1¼-in.	×	1¼-in.	Cypher Code	Cypher Code	puckish
5	5/6	6	7/6	1¼-in.	×	1¼-in.	7	8	7/6
Cypher Code	puckishly	Cypher Code	puckle	1¼-in.	×	1¼-in.	Cypher Code	Cypher Code	pukley
9	5/6	10	7/6	1¼-in.	×	1½-in.	11	12	7/6
Cypher Code	puckman	Cypher Code	puckmann	1¼-in.	×	1½-in.	Cypher Code	Cypher Code	puckma
13	7	14	9/6	1½-in.	×	1½-in.	15	16	9/6
Cypher Code	pucknette	Cypher Code	pudal	1½-in.	×	1½-in.	Cypher Code	Cypher Code	pudally
17	7/—	18	9/6	1½-in.	×	2-in.	19	20	9/6
Cypher Code	pudafe	Cypher Code	pudafely	1½-in.	×	2-in.	Cypher Code	Cypher Code	pudafag

SPARE PARTS.

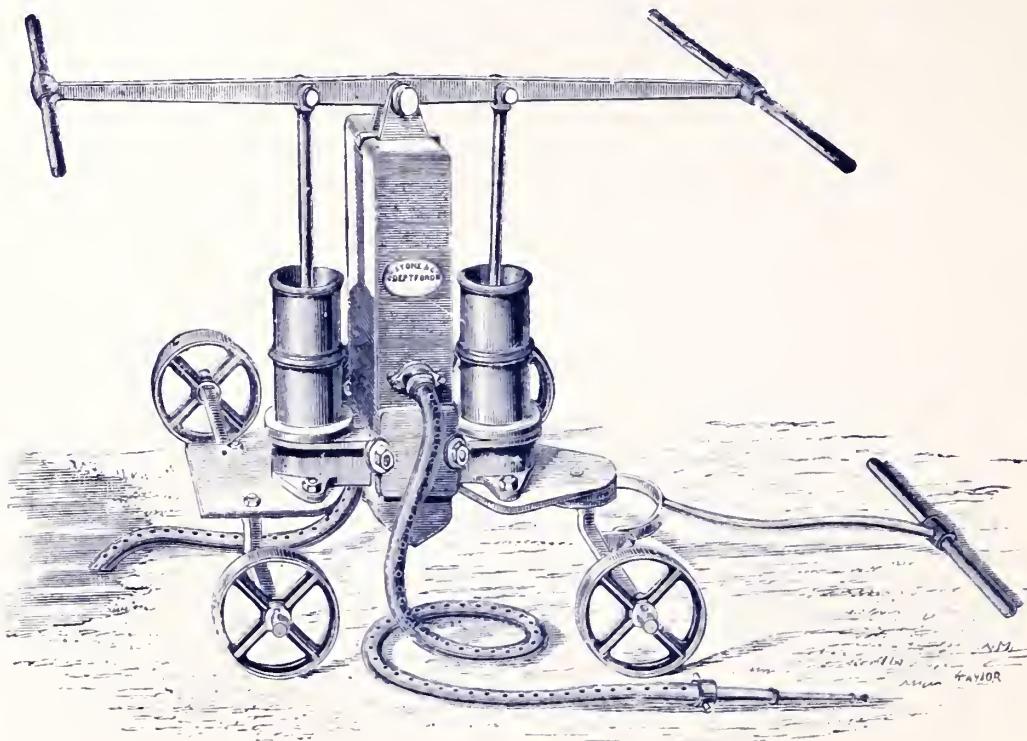
GLASS CUPS (large)	...	...	...	each	1½-in.	BALLS (large)	...	...	each	1
“ “ (small)	...	...	...	each	9	“ small)	...	...	each	9
LEAD CUPS (large)	...	...	...	each	3	RUBBER FLANGES (large)	...	...	each	6
“ “ (small)	...	...	...	each	2 6	“ small)	...	...	each	4

Large Cups, Balls and Flanges are used on 1½-in. × 1½-in. and all sizes above. Lead Cups should be used where hot water passes the trap.

The “Bower” Trap can readily be applied to old work, is suitable for Washstands, Baths, Sinks, &c., and especially adapted to the overflows and plungers of many descriptions of Water Closets.

No. 9,345.—J. STONE & CO.'S

IRRIGATING, LIQUID MANURE, AND GENERAL PURPOSE PUMP.



No. 9,345.

Mounted on strong wrought iron carriage, with four strong iron wheels, drag handle and turn carriage. The pump barrels are of **gun-metal**, and the valves are so arranged as to be **immediately accessible** by the removal of a door; in fact, the whole is of the simplest construction, and of a very strong and durable character. This engine will be proved invaluable as a farm and estate fire engine and general purpose pump for lifting and forcing.

PRICES.

With two 4-in. diameter barrels, to pump about 1,950 gallons per hour, and throw a jet 50 feet high								£	s.	d.
... Cypher Code	14	0	0							
... pudbednek	16	10	0							
... Cypher Code	18	12	6							
... pudbedost										

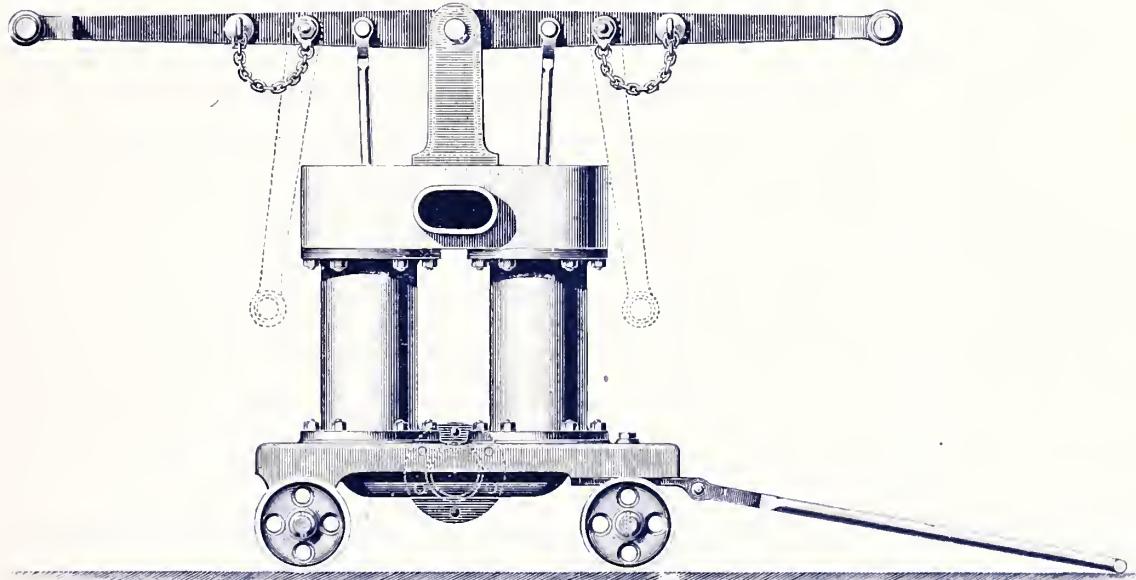
The above are fitted with lever arrangement, having *single* wrought iron socket and wood handle at each end, as illustrated.

If the above fitted with lever arrangement, having <i>double</i> wrought iron sockets and wood handle at each end, instead of <i>single</i> sockets and wood handle, as above quoted for								£	s.	d.
... Cypher Code	1	0	0							
... pudbedostle										

TWO TO FOUR MEN WILL WORK ABOVE PUMP WHEN USED FOR PUMPING PURPOSES ONLY.

No. 9,346. — J. STONE & CO.'S

**IMPROVED STRONG
CONTRACTORS' AND GENERAL PURPOSE
PUMP.**



No. 9,346.

With Two 7-in. diameter barrels, *each* making 10-in. stroke, mounted on carriage, as illustrated

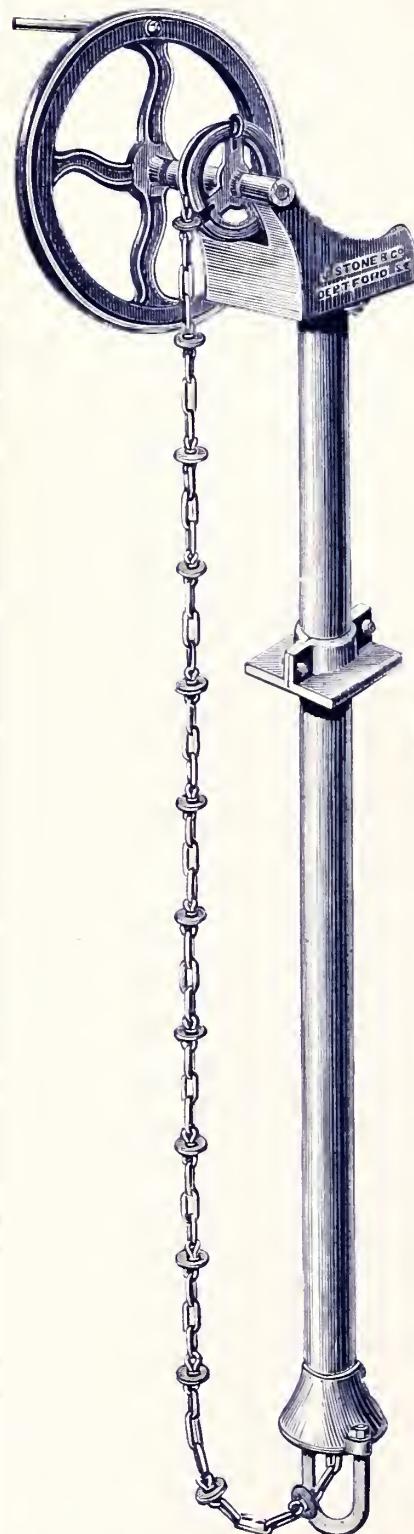
Cypher Code ...

£	s.	d.
27	0	0
per barrel		

EXTRAS.

3½-in. diameter Universal Ball and Socket Joint	...	...	...	...	...	...	...	Cypher Code ...
3½-in. diameter Combined Foot Valve and Strainer	...	...	...	...	...	...	...	Cypher Code ...
3½-in. diameter Galvanized Wrought Iron Suction Pipe, with Flanges, Bolts and Nuts, and Gutta Percha Rings for Joints	...	...	...	...	...	...	per foot	
Four feet, 3½-in. diameter Leather Delivery Hose for Pump Nozzle, with Iron Clips for connecting	...	...	...	...	...	...	all	Cypher Code ...
								1 7 6 per foot

J. STONE & CO.'S

IMPROVED CHAIN PUMPS.

No. 9,347.

Specially adapted for pumping liquid manure and sewage matter. They contain no valves or packing in construction; they cannot get out of order, or be broken by frost, and every portion of them being most substantially made of the best materials, carefully fitted together, they are unequalled for durability.

The covered pumps are invaluable for preventing splashing of the liquid on the person.

In both pumps the base plate at ground is adjustable, to allow of the spout being raised or lowered to suit convenience.

No. 9,347.

OPEN CHAIN PUMP.

Bore ...	2-in.	2½-in.	3-in.	3½-in.	4-in.
Price complete,) 12 feet under spout ...)	72 6	78 3	83	104	134 3
Cypher Code	pudbedfuh	pudbeduhaf	pudbedvay	pudbedvry	pudbedvsh
Exceeding 12) feet per foot)	3 6	3 11	4 2	5 1	6 5
Cypher Code	pudbedvosh	pudbedv	pudbedv	pudbeday	pudbedv

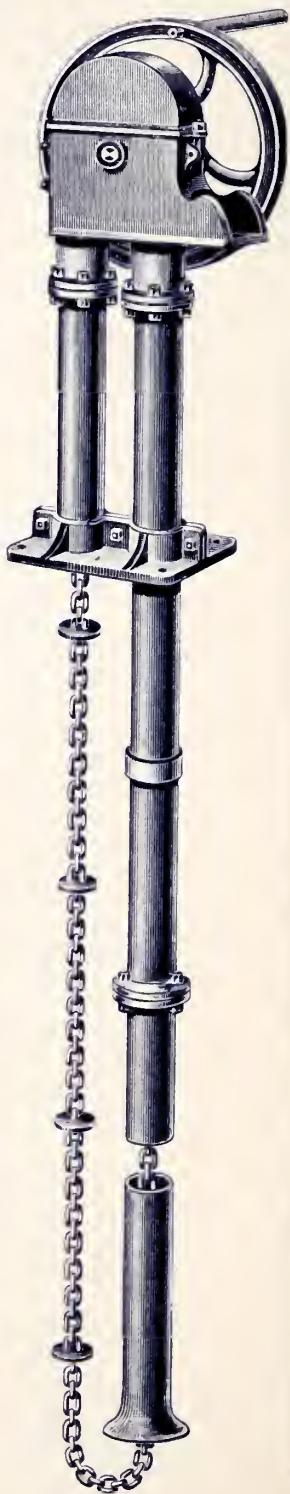
No. 9,348.

COVERED CHAIN PUMP.

FOR WORKING BY HAND.					
Bore ...	2-in.	2½-in.	3-in.	3½-in.	4-in.
Price complete,) 12 feet under spout ...)	84 -	93 6	104 -	123 9	163 6
Cypher Code	pudbedash	pudbedaf	pudbedahy	pudbedman	pudbedmen
Exceeding 12) feet per foot)	3 6	3 11	4 2	5 1	6 5
Cypher Code	pudea	pudeab	pudead	pudeaf	pudeag

FOR POWER.			
Bore ...	4-in.	4½-in.	6-in.
Price complete,) 12 feet under spout ...)	257 -	303 6	420 -
Cypher Code	pudeal	pudeam	pudeamn
Exceeding 12) feet per foot)	6 5	11 8	15 9
Cypher Code	pudeamary	pudeamase	pudeamso

NOTE.—Pulleys for Power Pumps are charged extra according to size.



No. 9,348.

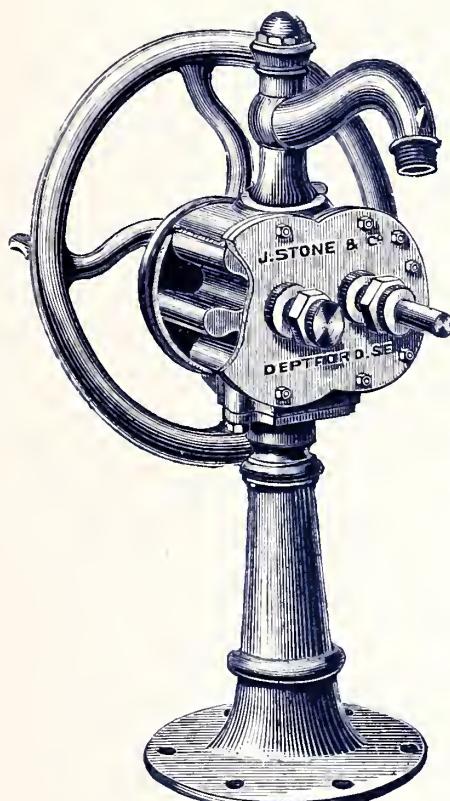
No. 9,349.—J. STONE & CO.'S

ROTARY LIFT AND FORCE PUMP,

WITH FLY-WHEEL AND HANDLE FOR WORKING BY HAND-POWER.

This Pump is exceedingly simple, strong, and powerful, and can be readily worked by two men. It is the best Rotary Hand Pump made.

The cap on top of goose-neck is screwed on the nozzle when a vertical delivery is required.



No. 9,349.

Sizes.	Diameter of Suction	Diameter of Delivery.	PRICE.
No. 1	1 $\frac{1}{4}$ -in.	1-in. Cypher Code ..	£ 4 s. 0 pudcamay
„ 2	1 $\frac{1}{4}$ -in.	1-in. Cypher Code ..	4 16 6 pudcamy
„ 3	1 $\frac{1}{2}$ -in.	1 $\frac{1}{4}$ -in. Cypher Code ..	5 13 6 pudcam
„ 4	1 $\frac{1}{2}$ -in.	1 $\frac{1}{2}$ -in. Cypher Code ..	7 7 0 pudcamat
„ 5	2-in.	2-in. Cypher Code ..	8 8 0 pudcamay

No. 9,350.—J. STONE & CO.'S

ROTARY LIFT AND FORCE PUMP,

As above, but fitted on Frame, with Fast and Loose Pulleys for Power.

Sizes.	Diameter of Suction.	Diameter of Delivery.	PRICE.
No. 1	1 $\frac{1}{4}$ -in.	1-in. Cypher Code ..	5 13 6 pudcam
„ 2	1 $\frac{1}{4}$ -in.	1-in. Cypher Code ..	6 14 6 pudcamy
„ 3	1 $\frac{1}{2}$ -in.	1 $\frac{1}{4}$ -in. Cypher Code ..	7 19 6 pudcam
„ 4	1 $\frac{1}{2}$ -in.	1 $\frac{1}{2}$ -in. Cypher Code ..	10 1 6 pudcamat
„ 5	2-in.	2-in. Cypher Code ..	11 7 0 pudcamada



No. 9,351.

No. 9,351.—J. STONE & CO.'S
EXTRA STRONG LIQUID MANURE LIFT
AND FORCE PUMP,
ON TRIPOD STAND.

With Wrought Iron Handle and Bucket Rod,
Galvanized Body and Cover, and Brass Union
on Suction and Delivery.

4½-in. diameter	... ...	88/- each.
Cypher Code	puðeñalldy	
Best vulcanized India-rubber suction		
hose for ditto with spiral worm inside, extra		{ 2/9 per foot.
Best vulcanized India-rubber delivery		
hose for ditto		{ 2 2 per foot.
Cypher Code	puðeñag	
Galvanized iron suction rose or strainer, extra		{ puðeñagd
Cypher Code	puðeñad	
Tying hose to unions and strainer with copper wire		{ 5 each.
Cypher Code	puðeñal	
Cypher Code	puðeñalld	{ 1 3 per joint.
Cypher Code	puðeñalld	

No. 9,352.—J. STONE & CO.'S
STRONG GALVANIZED CONTRACTORS' PUMP.

These pumps are usually made 7 feet long, but can be lengthened by means of iron flanged pipe, or by means of the sliding suction shown in illustration. The 6-in. diameter and upwards supplied with bow handles as illustrated.

PRICES.

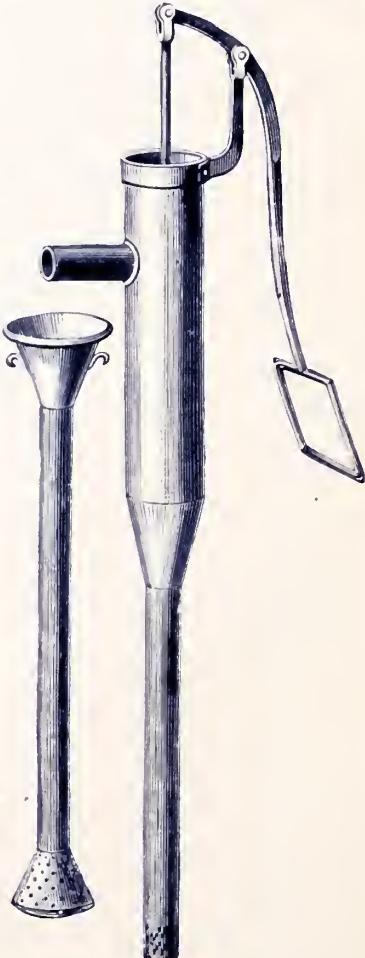
Diameter of Barrel.	Height under Spout.	PRICE.
3-in.	7 feet	£ 2 1 0
4-in.	7 feet	2 12 6
5-in.	7 feet	3 5 0
6-in.	7 feet	4 1 6
7-in.	7 feet	5 4 0
8-in. and 9-in.	7 feet	Prices on application.
	Cypher Code	puðeñal
		puðeñalld

Extra per foot, if required more than 7 feet long, including flanged joints, bolts, nuts, &c.

For	3-in.	4-in.	5-in.	6-in.	7-in.	8-in. and 9-in. pumps
Galvanized	2 5	3	3 8	4 6	5	Prices on application.
Cypher Code	puðeñiz	puðeñil	puðeñir	puðeñist	puðeñiu	puðeñar

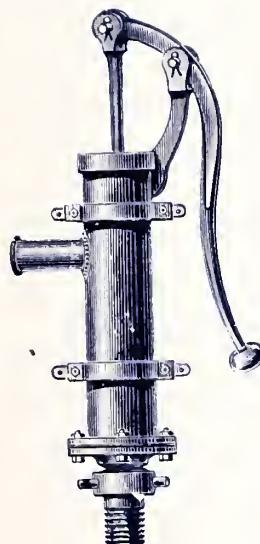
No. 9,353.
GALVANIZED WROUGHT IRON SLIDING SUCTION FOR CONTRACTORS' PUMP,
(8 FEET long).

The funnel shape head is filled with clay, to make the joint, and can be lowered as required, without unfixing any part of the pump.

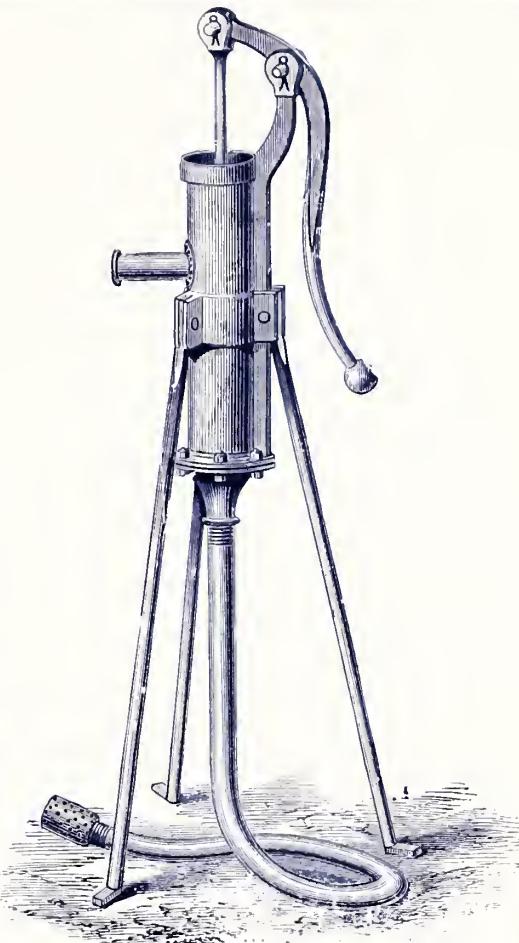


For 3-in.	4-in.	5-in.	6-in.	7-in.	8-in. and 9-in. pumps.
20	25	30 6	37 6	40 - each.	Prices on application.
Cypher Code	puðeñap	puðeñape	puðeñed	puðeñefi	puðeñar

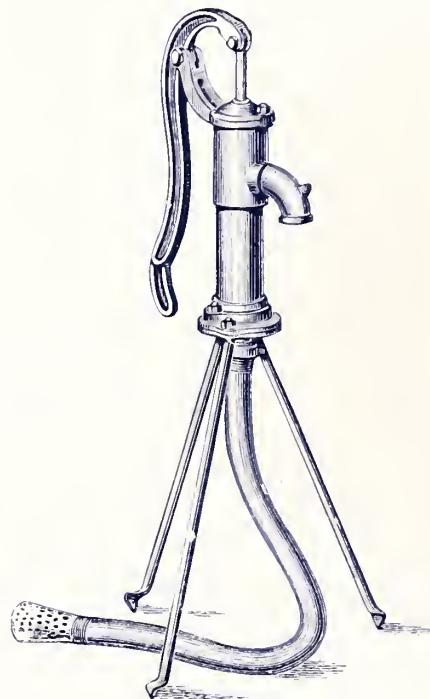
No. 9,353. No. 9,352.



No. 9,354.



No. 9,355.



No. 9,356.

No. 9,354.—J. STONE & CO.'S STRONG GALVANIZED LIQUID MANURE PUMP.

With straps for fastening to water cart, plain tail and clip for connecting suction hose, wrought iron handle and bucket rod, $4\frac{1}{2}$ -ins. diameter

	£	s.	d.
Cypher Code ...	2	10	0

per card

No. 9,355.—J. STONE & CO.'S STRONG GALVANIZED LIQUID MANURE PUMP, ON TRIPOD STAND.

With plain tail and clip for connecting suction hose, wrought iron handle and bucket rod, $4\frac{1}{2}$ -ins. diameter

	£	s.	d.
Cypher Code ...	3	0	0

per card

Extras to Nos. 9,354 and 9,355.

If fitted with brass union on tail for suction hose

Cypher Code ... 3 6 each.

Best vulcanized india-rubber suction hose

Cypher Code ... 2 4 per ft.

Galvanized iron suction rose or strainer for ditto

Cypher Code ... 5 - each.

Tying hose to union and strainer with copper wire

Cypher Code ... 2 6 all.

vulcanized

No. 9,356.—J. STONE & CO.'S STRONG TRIPOD PUMP.

Mounted on Wrought Iron Legs, fitted with Brass Union on Tail for Suction Hose.

	2 $\frac{1}{2}$ -in.	3-in.	3 $\frac{1}{2}$ -in. diam.
--	----------------------	-------	----------------------------

Pump

20 3

23 9

32 9

Extras—If with brass bucket and valve

padearling

padearlo

padearlog

4 6

5 9

6 9

Best vulcanized India-rubber suction hose

padearm

padearna

padearmed

1 8

2 0

2 8

Galvanized iron suction rose or strainer for ditto

padearning

padearno

padearnode

3 6

4 0

4 6

Tying hose to union and strainer with copper wire

padearmig

padearman

padearmen

2 6

2 6

2 6

Cypher Code ...

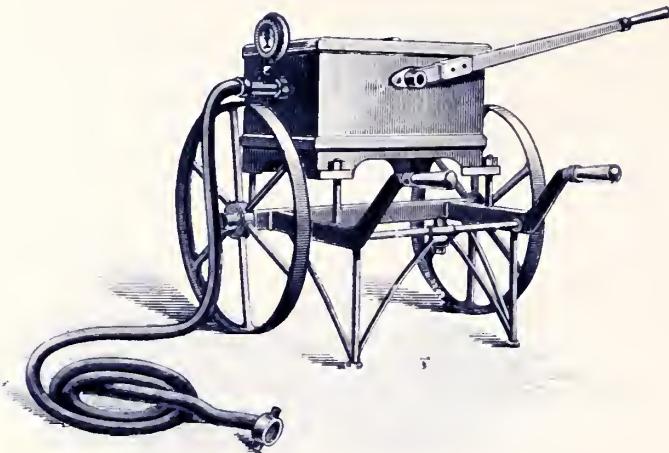
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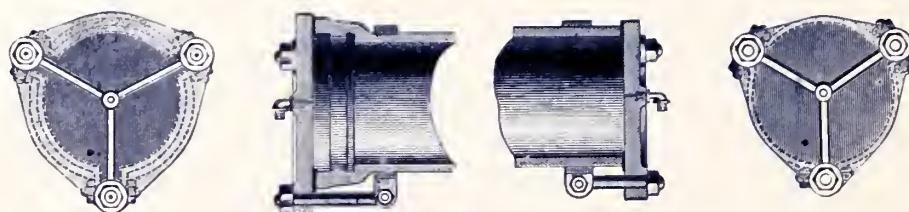
No. 9,357.—J. STONE & CO.'S

IMPROVED TEST PUMP ON BARROW.



No. 9,357.

This Test Pump is of Gun-metal , fitted in cast iron tank, with 20 feet 1-in. diameter strong india-rubber hose, pressure gauge and couplings: the whole mounted on strong wrought iron Barrow	Cylinder Code ...	£ s. d.
		14 10 0
If supplied <i>without</i> barrow	Cylinder Code ...	11 5 0



No. 9,358.

BLANK FLANGES FOR TESTING PIPES.

With Bolts, Coupling, and Air Cock complete, to fit any size of pipe.

PRICES ON APPLICATION.

Cypher Code in nodelearnml

WHEN ORDERING IT IS NECESSARY TO SAY SIZE OF PIPES REQUIRED TO BE TESTED.

J. STONE & CO.'S
FITTINGS FOR WATER SUPPLY
AS ADOPTED BY
LONDON, PROVINCIAL & FOREIGN WATER COMPANIES.

STONE'S PATENT "METROPOLITAN" AND OVAL PATTERN SLUICE VALVES.

STONE'S PATENT APPARATUS FOR DRILLING AND TAPPING WATER MAINS AND INSERTING FERRULES IN SAME, UNDER PRESSURE.

APPARATUS FOR TESTING WATER METERS, PIPE TESTING MACHINES, &c.

STREET WATERING POSTS, WITH STONE'S NEW PATENT "LOCKING" SWIVEL SWAN NECK.

AIR VALVES, RESERVOIR VALVES, &c.

WATER CRANES.

STONE'S PATENT METROPOLITAN FIRE HYDRANTS, FIRE COCKS, STAND POSTS, PORTABLE STAND PIPES, &c.

STONE'S IMPROVED PRESSURE AUGMENTERS.

STONE'S PATENT INSTANTANEOUS AND INTERCHANGEABLE HOSE COUPLINGS.

STONE'S PATENT "CONSTANT SUPPLY" DOUBLE VALVE SCREW DOWN STOP COCKS.

STOP VALVES, FERRULES, &c.

STONE'S NEW PATENT SELF-CLOSING "SILENT" NON-CONCUSSIVE VALVES.

STONE'S PIPE UNIONS FOR CONNECTING LEAD PIPES WITHOUT SOLDER.

REPAIRABLE BIB COCKS (can be repaired under pressure, without shutting off the water at any other point).

STONE'S PATENT "SYPHON" WASTE PREVENTER CISTERNS.

For full particulars of above, see Illustrated Catalogues, Section A, Parts 1 & 2, to be obtained upon application.

FIRE ENGINES, PUMPS, &c.,

See Illustrated Catalogue, Section D, to be obtained upon application.

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LONDON WALL.





SECTION E, 8th EDITION.

J. STONE & CO., DEPTFORD, LONDON, S.E.

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